

Cellco Partnership and its controlled affiliates doing business as Verizon Wireless

Federal Communications Commission
NEPA Environmental Assessment
Historic Properties

Kane Lamont Relo

3218 Highland Road

Kane, Elk County, PA

N 41-35-34.57 / W 78-49-29.89

*Raw Land-New Build, 309-foot Self-Support
Communications Tower Site*

Project: 6114005635 – EnSite # 19752

September 26, 2016

EBI Consulting

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1.0 *PROPOSED ACTION*

1.1 *PURPOSE AND NEED*

The purpose and need of the proposed installation is to establish new and improved telecommunications coverage in the immediate area of the proposed facility location. Specifically, Verizon Wireless wishes to provide wireless communications coverage and connectivity to the areas of James City, Highland Corners, and Russell City as well as along Route 948, Route 66, and Highland Road.

This Environmental Assessment was prepared in accordance with the provisions set forth in Title 47 of the Code of Federal Regulations, Subpart 1, Sections 1.1308 and 1.1311 of the Federal Communication Commission's (FCC) rules implementing the National Environmental Policy Act (NEPA).

Further, the SHPO finds that this project will have an effect on properties listed in or eligible for the National Register of Historic Places, and will adversely affect the historic and architectural qualities that make the property eligible. This EA was required in accordance with Section 1.1307 (4) of FCC NEPA Rules to evaluate the potential impact of this proposed facility on Archaeological and Historical Resources. Please refer to Section 2.4 of this report for a full summary of the Section 106 consultation and the Memorandum of Agreement.

1.2 *PROJECT DESCRIPTION*

The Site address is 3218 Highland Road, Kane, Elk County, PA 16735. The Site's latitude and longitude are N 41-35-34.57 / W 78-49-29.89 (NAD83). The Site is currently agricultural land and vacant woodland with no existing above ground improvements. The area surrounding the Site is currently a predominantly rural landscape consisting primarily of cleared fields and undeveloped woodland in all directions. A Site Topographic Map and Site Plans are presented in Appendix A.

On June 19, 2014, James Dietterich of EBI Consulting conducted a Site visit. Site photographs obtained during the Site visit are provided in Appendix B.

This project involves the review of the installation of a new telecommunications facility to consist of a 309-foot tall self-support lattice

tower, with panel antennas mounted at 295 feet above grade. The tower and support equipment, including a 12-foot by 30-foot equipment shelter, will be located within a fenced compound within a 100-foot by 100-foot lease area. A 30-foot wide access and utility easement will extend southeast from the lease area to Highland Road. Utilities will be routed underground within this easement. An overhead utility wire will also be routed from a proposed utility pole at the southern corner of the lease area to an existing utility pole across Highland Road.

1.3 *LOCAL ZONING AND PLANNING REQUIREMENTS*

According to Mr. Russ Braun, Building Code Official with Highland Township, the township does not have zoning or other land use ordinances. Therefore, no zoning or land use approval is necessary for the proposed project. A copy of this correspondence is included in Appendix D.

To note, a building permit (permit #UCC16-1069) dated September 23, 2016 was issued for the proposed project. A copy of the permit is included in Appendix D.

Various local, state and federal authorities, including but not limited to the State Historic Preservation Office (SHPO) and United States Fish and Wildlife Service were invited to comment on the proposed facility. A summary of the pertinent details of their comments and interactions can be found in Section 3.0 (below) and other applicable sections of this EA. Please note, SHPO found that this project will have an effect on properties listed in or eligible for the National Register of Historic Places, and will adversely affect the historic and architectural qualities that make the property eligible. Please see Section 2.4 for complete details.

The proposed construction of the facility has not been a source of controversy on environmental grounds in the local community. Please refer to Appendix C for copies of any comments received regarding the proposed facility.

1.4 *ALTERNATIVES AND NO-ACTION ALTERNATIVE*

Alternative 1: No Action

The No Action Alternative generally means that the proposed activity would not take place. This alternative would deny the approval of the

proposed application, and the current land and resource uses would continue to occur in the proposed project area. No mitigation measures would be required.

Under the No Action Alternative, no telecommunications facility will be constructed. The areas of James City, Highland Corners, and Russell City as well as along Route 948, Route 66, and Highland Road will remain unserved or underserved with respect to Verizon Wireless cellular coverage and connectivity.

Alternative 2: Candidate Sites

According to representatives of Verizon Wireless, alternative general and specific locations for the proposed communication site were considered. To be considered, a candidate site must: (i) be available through a ground lease from the land owner; (ii) meet the local authority's planning and zoning requirements with respect to communications facilities; and (iii) meet the criteria necessary for Verizon Wireless to achieve its wireless coverage and connectivity objectives. The following alternative sites or geographic areas have also been considered by Verizon Wireless:

1. Kane Lamont tower, located at N 41-37-3 / W 78-48-12 – according to an Alternatives Analysis prepared by Verizon Wireless, “The current Kane Lamont tower is failing structurally and the owner will not upgrade the tower, which results in issues for future enhancement by Verizon in this area (such as moving the RRHs on top of the tower. In the current state, AWS RHHS could not be added to the top of the tower). Since Verizon now has LTE coverage from the DT Kane site, re-positioning the Kane Lamont site, a little south, increases the overall Verizon coverage in the area.”
2. Hilltop #1, located approximately 950 feet northwest of the intersection of Kane Russell City Road/Route 66 and Lindy Road/T308 – according to an Alternatives Analysis prepared by Verizon Wireless, this location was assessed and “...determined to not be feasible, due primarily to access and utility issues and, secondarily, the leasing issues with National Forest sites. The access for ingress/egress and utilities would require extensive tree removal and complicated utility placement.”
3. Hilltop #2, located approximately 0.38-mile southeast of the intersection of Kane Russell City Road/Route 66 and Lindy Road/T308 – according to an Alternatives Analysis prepared by Verizon Wireless, this location was assessed and “...determined to not

be feasible, due primarily to access and utility issues and, secondarily, the leasing issues with National Forest sites. The access for ingress/egress and utilities would require extensive tree removal and complicated utility placement.”

4. Hilltop #3, located approximately 0.68-mile northeast of the intersection of Kane Russell City Road/Route 66 and Lindy Road/T308 – according to an Alternatives Analysis prepared by Verizon Wireless, this location “...is privately owned and the owner was approached in the fall of 2013 and declined to consider any type of tower.”
5. Vito, located off of Hickey Road – according to an Alternatives Analysis prepared by Verizon Wireless, “The rejected candidates included the sites Vito, Romeo, and Arbitus, each of which had RF issues making the sites untenable for the needs of the Verizon Wireless RF design. The sites considered were not suitable due to diminishing the existing coverage currently available. They are all too far from overlapping tower coverage.”
6. Arbitus, located near the intersection of Kane Russell City Road/Route 66 and Garris Road. This site was rejected as stated above under number 5.
7. Romeo, located approximately 0.6-mile northeast of the intersection of Kane Russell City Road/Route 66 and Lindy Road/T308. This site was rejected as stated above under number 5.

Alternative 3: Proposed Action

Verizon Wireless proposes to construct a 309-foot (overall height including top-mounted appurtenances) self-support lattice tower and associated support equipment within a 100-foot by 100-foot lease area. The proposed tower facility and associated right-of-way will be located on agricultural land.

The Proposed Action will provide areas of James City, Highland Corners, and Russell City as well as along Route 948, Route 66, and Highland Road with new and improved Verizon Wireless cellular service coverage and connectivity.

2.0 *AFFECTED ENVIRONMENT*

This EA was completed in accordance with FCC Rules Implementing NEPA (47 CFR 1.1301-1.1319, as amended). This EA includes an evaluation of potential impacts of the proposed communications tower facility on prehistoric and historic resources (archaeological sites, historic structures, and Indian religious sites), threatened or endangered species (protected listed, candidate, and critical habitat), migratory birds, wilderness areas, wildlife preserves, floodplains, and surface features (wetlands, water bodies and forested land). An evaluation of potential impacts to humans from tower lighting and radiofrequency radiation was also performed by the tower owner and/or applicant, as summarized herein.

The preparation of this EA was required under 47 CFR 1.1307(a)(4) of FCC NEPA rules, because the SHPO finds that this project will have an effect on properties listed in or eligible for the National Register of Historic Places, and will adversely affect the historic and architectural qualities that make the property eligible. Please see Section 2.4 of this report for a full summary of the Section 106 consultation and the Memorandum of Agreement, and refer to Appendix D for applicable supporting documentation.

2.1 *WILDERNESS AREAS*

Will the facility be located in an officially designated wilderness area?

No

Source: Site observations, U.S. Geological Survey (USGS) 7.5-Minute Series Topographic Quadrangle, U.S. Department of Interior (DOI) National Atlas (www.nationalatlas.gov) and www.wilderness.net as depicted on EBI's Land Resources Map (Appendix C).

Finding(s): The proposed facility is not located in an officially designated wilderness area.

2.2 *WILDLIFE PRESERVES*

Will the facility be located in an officially designated wildlife preserve?

No

Source: Site observations, U.S. Geological Survey (USGS) 7.5-Minute Series Topographic Quadrangle, U.S. Department of Interior (DOI) National Atlas (www.nationalatlas.gov) and the U.S. Fish and Wildlife Service (USFWS) as depicted on EBI's Land Resources Map (Appendix C).

Finding(s): The proposed facility is not located in an officially designated wildlife preserve.

2.3

PROTECTED SPECIES AND MIGRATORY BIRDS

Will the facility affect listed or proposed threatened or endangered species or designated critical habitats?

No

Source: Site observations, research through the Pennsylvania Natural Diversity Inventory (PNDI), consultation with the PA Game Commission, and a standing response from the U.S. Fish and Wildlife Service (USFWS) (Appendix C).

Finding(s): The PNDI results indicated that further review was required by the PA Game Commission (PAGC), however, no further review was required by the PA Department of Conservation and Natural Resources, PA Fish and Boat Commission, or the USFWS. Therefore, EBI consulted with the PAGC. In correspondence dated July 28, 2016, the PAGC determined that no impact is likely, and therefore, no further coordination would be necessary. **Please note the PAGC response is valid for two years from the date of their letter through July 28, 2018. Additionally, the PNDI receipt dated July 22, 2016 is valid for two years through July 22, 2018.**

Additionally, in a standing response from the PA USFW, if the project-specific Pennsylvania Natural Diversity Inventory (PNDI) receipt indicates that no known impacts to federally listed or proposed threatened or endangered species under our jurisdiction are anticipated, no further review is required with our agency pursuant to the Endangered Species Act.

Please note, the PA USFW recommend the following measure be implemented to protect migratory birds from collisions with towers:

Where disturbance is necessary, clear natural or semi-natural habitats (e.g., forests, woodlots, reverting fields, shrubby areas) and perform maintenance activities (e.g., mowing) between September 1 and March 31, which is outside the nesting season for most native bird species. Without undertaking specific analysis of breeding species and their respective nesting seasons on the project site, implementation of this seasonal restriction will avoid take of most breeding birds, their nests, and their young (i.e., eggs, hatchlings, fledglings).

USFWS recommendations published in Revised Guidelines for Communication Tower Design, Siting, Construction, Operation, Retrofitting, and Decommissioning (2013) state the preferred tower height to decrease potential effects on migratory birds is less than 200 feet tall. The siting and design process for this project could not conform to all the USFWS recommendations. Therefore, it has included mitigating factors such as consideration of collocation, tower siting with existing towers or in minimally sensitive areas, limiting tower height to 309 feet and eliminating the need for guy wires.

In response to the USFWS's comments concerning new tower construction and the use of L-810 lighting (steady-burning red obstruction side markers), Verizon Wireless currently adheres to all current regulations regarding tower lighting as required by the Federal Aviation Administration (FAA) in Advisory Circular 70/7460-1L (2015).

2.4

ARCHEOLOGICAL AND HISTORICAL SITES

Will the facility affect districts, sites, buildings, structures or objects significant in American history, architecture, archaeology, engineering or culture that are listed, or are eligible for listing, in the National Register of Historic Places?

Yes

Source: Review of State Historic Preservation Office (SHPO) files, archaeological testing, public involvement, and Local Government and SHPO consultation including a Memorandum of Agreement (MOA) (Appendix C).

Finding(s): **Based on the information provided, SHPO finds that this project will have an effect on properties listed in or eligible for the National Register of Historic Places, and will adversely affect the**

historic and architectural qualities that make the property eligible. EBI submitted a SHPO addendum to the PA SHPO on July 20, 2015 to address the SHPO's request for additional information. Therefore, EBI prepared a MOA which ensures that the following stipulations are carried out:

The proposed facility will include a 300-foot tall self supporting lattice tower with 12 antennas mounted with a centerline height of 295 feet above ground level. The tower will have a nine foot tall lightning rod attached to the top bringing the total overall height to 309 feet above ground level. In accordance with Federal Aviation Administration regulations, the anticipated lighting application is medium intensity dual red/white strobes; and

The radio equipment will be installed within the outdoor equipment cabinets located within the ground level equipment compound; and

Verizon Wireless will make the Facility available for the future placement of antennas and associated equipment for public safety broadband service, as legislated in Section 6206 of the Middle Class Tax Relief Act, to the extent that space on the Facility is available for use and the structural integrity of the proposed tower allows.

The MOA was signed by the FCC, PA SHPO, and Verizon Wireless, which outlined the agreed upon measures to be implemented to mitigate the 'Adverse Effect' on historic resources. Please refer to Appendix C for a copy of the MOA and pertinent associated supporting documentation.

In the event that archaeological materials are encountered prior to or during construction of the facilities, SHPO, tribes and other consulting parties must be contacted. Archaeological materials consist of any items, fifty years or older, which were made or used by man. These items include stone projectile points (arrowheads), ceramic sherds, bricks, worked wood, bone and stone, metal and glass objects, and human skeletal remains. These materials may be present on the ground surface and/or under the ground.

2.5 NATIVE AMERICAN CULTURAL SITES

Will the facility affect Native American cultural sites?

No

Source: Map location review, Indian Reservations in the Continental United States, Bureau of Indian Affairs Map, and consultation with federally recognized tribes (Appendix C).

Finding(s): Due to the nature of this undertaking little potential exists for effects to Indian Religious sites. Current land use in the surrounding area was considered. It was determined through this review and tribal consultation, as outlined in the NPA, that the above referenced project is unlikely to affect Indian religious sites.

In the event that archaeological materials are encountered prior to or during construction of the facilities, SHPO, tribes and other consulting parties must be contacted. Archaeological materials consist of any items, fifty years or older, which were made or used by man. These items include stone projectile points (arrowheads), ceramic sherds, bricks, worked wood, bone and stone, metal and glass objects, and human skeletal remains. These materials may be present on the ground surface and/or under the ground.

2.6 FLOOD PLAINS

Will the facility be located in a 100-year floodplain?

No

Source: Site observations and Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM), Panel 42047C0130D, dated January 18, 2012 (Appendix C).

Finding(s): The proposed facility is not located in a 100-year floodplain.

2.7 SURFACE FEATURES

Will construction of the facility involve a significant change in surface features (e.g. wetland fill, water diversion, or deforestation)?

No

Source: Site observations, U.S. Geological Survey (USGS) 7.5-Minute Series Topographic Quadrangle, Natural Resources Conservation Service

(NRCS) Soil Survey, and U.S. Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) map (Appendix C).

Finding(s): Due to the scope of the proposed project activities, the current Site conditions and review of applicable source data, significant changes in surface features such as wetland fill, water diversion or deforestation will not be required at the Site.

2.8 HIGH-INTENSITY WHITE LIGHTING

Will the facility be equipped with high intensity white lights and be located in a residential neighborhood?

No

Source: Verizon Wireless representatives and site design plans.

Finding(s): The proposed telecommunications facility will not include the use of high intensity white lights within residentially-zoned neighborhoods.

2.9 RADIO FREQUENCY EMISSIONS

Will facility operations and/or cause human exposure to levels of radio frequency radiation in excess of permissible limits (per §§1.1310)?

No

Source: Verizon Wireless representatives.

Finding(s): According to representatives of Verizon Wireless, the proposed facility will not result in human exposure to levels of radio frequency radiation in excess of permissible limits (per §§1.1310).

3.0

CONCLUSION

This EA of the proposed Kane Lamont Relo was completed in accordance with FCC Rules Implementing NEPA (47 CFR 1.1301-1.1319, as amended). This EA includes an evaluation of potential impacts of the proposed communications tower facility on prehistoric and historic resources (archaeological sites, historic structures, and Indian religious sites), threatened or endangered species (protected listed, candidate, and critical habitat), migratory birds, wilderness areas, wildlife preserves, floodplains, and surface features (wetlands, water bodies and forested land). An evaluation of potential impacts to humans from tower lighting and radiofrequency radiation was also performed by the tower owner and/or applicant, as summarized herein.

The preparation of this EA was required under 47 CFR 1.1307(a)(4) of FCC NEPA rules, because the SHPO finds that this project will have an effect on properties listed in or eligible for the National Register of Historic Places, and will adversely affect the historic and architectural qualities that make the property eligible. Applicable supporting documentation is included in Appendix D.

In correspondence dated July 28, 2016, the PA Game Commission (PAGC) determined that no impact is likely, and therefore, no further coordination would be necessary. Please note the PAGC response is valid for two years from the date of their letter through July 28, 2018. Additionally, the Pennsylvania Natural Diversity Inventory (PNDI) receipt dated July 22, 2016 is valid for two years through July 22, 2018.

Please note, the PA USFW recommend the following measure be implemented to protect migratory birds from collisions with towers: Where disturbance is necessary, clear natural or semi-natural habitats (e.g., forests, woodlots, reverting fields, shrubby areas) and perform maintenance activities (e.g., mowing) between September 1 and March 31, which is outside the nesting season for most native bird species. Without undertaking specific analysis of breeding species and their respective nesting seasons on the project site, implementation of this seasonal restriction will avoid take of most breeding birds, their nests, and their young (i.e., eggs, hatchlings, fledglings).

Additionally, based on information provided, SHPO finds that this project will have an effect on properties listed in or eligible for the National Register of Historic Places, and will adversely affect the historic and architectural qualities that make the property eligible. EBI

submitted a SHPO addendum to the PA SHPO on July 20, 2015, to address the SHPO's request for additional information. Therefore, EBI prepared a MOA which ensures that the following stipulations are carried out:

The proposed facility will include a 300-foot tall self supporting lattice tower with 12 antennas mounted with a centerline height of 295 feet above ground level. The tower will have a nine foot tall lightning rod attached to the top bringing the total overall height to 309 feet above ground level. In accordance with Federal Aviation Administration regulations, the anticipated lighting application is medium intensity dual red/white strobes; and

The radio equipment will be installed within the outdoor equipment cabinets located within the ground level equipment compound; and

Verizon Wireless will make the Facility available for the future placement of antennas and associated equipment for public safety broadband service, as legislated in Section 6206 of the Middle Class Tax Relief Act, to the extent that space on the Facility is available for use and the structural integrity of the proposed tower allows.

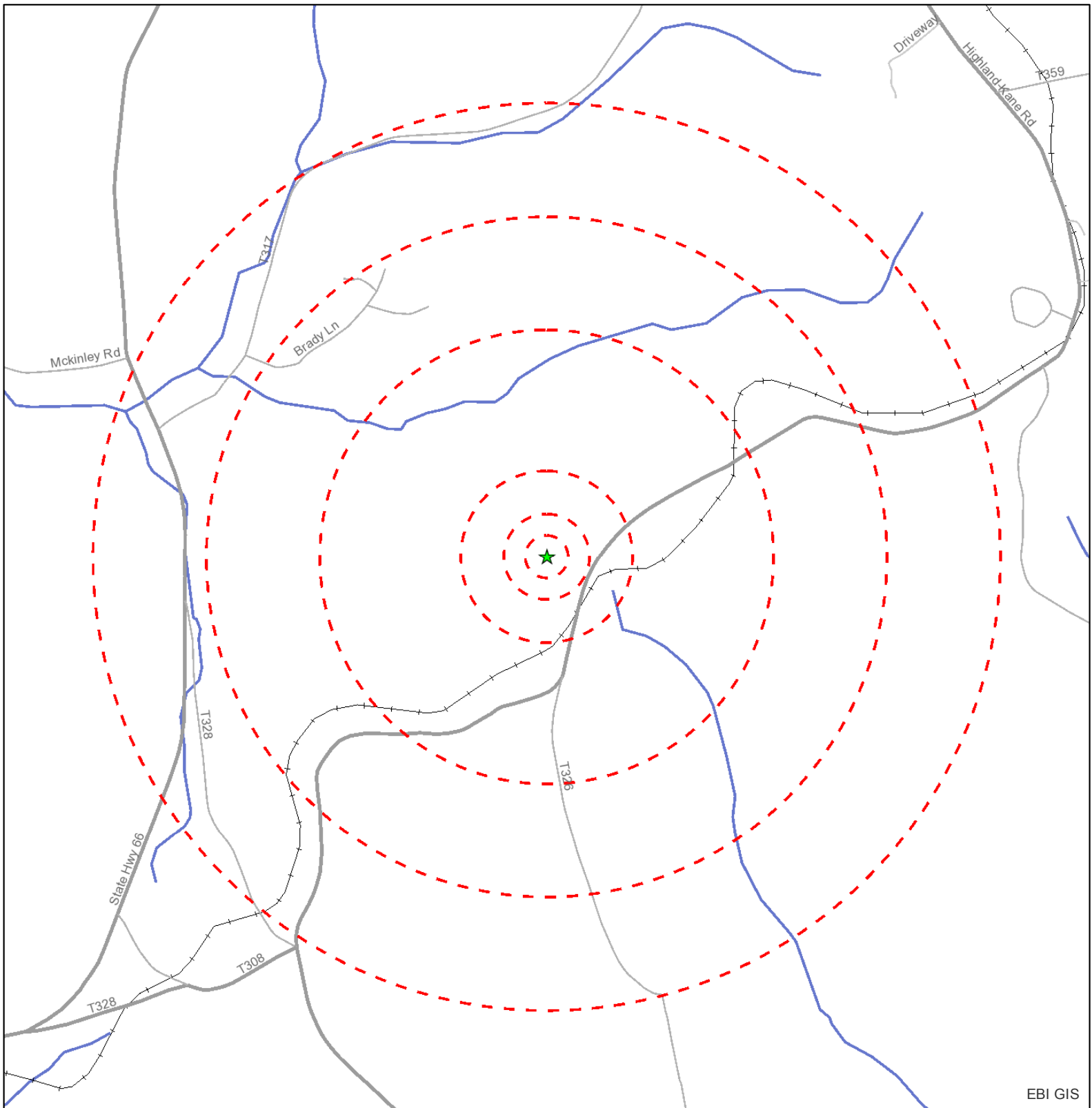
The MOA was signed by the FCC, PA SHPO, and Verizon Wireless, which outlined the agreed upon measures to be implemented to mitigate the 'Adverse Effect' on historic resources. Please refer to Appendix C for a copy of the MOA and pertinent associated supporting documentation.

4.0***QUALIFICATION OF PREPARERS***

Name	Discipline
James Dietterich	Site Assessor
Jason Stayer	Natural Resources Specialist
Jennifer Davis	Cultural Resources Specialist
Lee Brewer	Quality Assurance

Appendix A

Site Figures



Legend

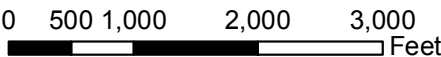
- ★ Project Site
- Site Radius at 250', 500', 1000', 1/2, 3/4 & 1 mile

Source: Selected data from ESRI, EBI & USGS



Date: 6/18/2014



Figure 1: Site Location Map








19752 KANE LAMONT RELO
3218 HIGHLAND ROAD
KANE, PA 16735

Land Resources Legend

Scenic Parkways, Rivers & Trails

-  National Scenic Parkway
-  National Park Service Trail / Appalachian Trail
- AZ - BLM Historic Trail
- CT - DEP Trail
- MT- Lewis & Clark Trail
- NY - Trails

-  NY - Scenic Landmark Area
-  NY - Statewide Area of Scenic Significance
-  National Wild, Scenic River
-  State Wild, Scenic, Protected River
-  PA - Scenic River









Sources: National Park Service http://www.nps.gov/gis/data_info/; Bureau of land management <http://www.blm.gov/wo/st/en.html>; CT DEP http://www.ct.gov/deep/cwp/view.asp?a=2698&q=323342&deepNav_GID=1707%20; NY GIS Clearinghouse <http://gis.ny.gov/>; National W & S Rivers <http://www.rivers.gov/rivers/mapping-gis.php>; Montana GIS <http://nris.mt.gov/gis>; State rivers data from state government and protection agencies.

State Conservation, Lands & Wildlife Areas









-  CT - DEP Property
- CO - Public Access Wildlife Area
- FL - Wildlife Management Area
- MT - National Wildlife Refuge
- NH - WMNF Management Area
- ME - Conservation Land
- TN - Wildlife Resource Land
- TX - State Park or Wildlife Mgt Area
-  TX - Audubon Sanctuary
-  CT - DEP Municipal and Open Space
- NH - Conservation Land
- NY - DEC State Lands
-  NY - Agricultural District

Sources: CT DEP http://www.ct.gov/deep/cwp/view.asp?a=2698&q=323342&deepNav_GID=1707%20; CO Wildlife Space http://ndis.nrel.colostate.edu/ftp/ftp_response.asp; Florida Fish and Wildlife www.MyFWC.com; Montana GIS <http://nris.mt.gov/gis>; NH GRANIT <http://www.granit.unh.edu/data/downloadfreedata>; ME GIS <http://megis.maine.gov/catalog>; TN GIS <http://www.state.tn.us/environment/parks/gis/data/>; TX GIS <http://www.glo.state.tx.us/nri/data/index.html>; NY GIS Clearinghouse <http://gis.ny.gov/>

US FWS NWI Wetland Type













-  Estuarine and Marine Deepwater
-  Estuarine and Marine Wetland
-  Freshwater Emergent Wetland
-  Freshwater Forested/Shrub Wetland
-  Freshwater Pond
-  Lake
-  Other
-  Riverine

State Endangered Threatened & Protected Species

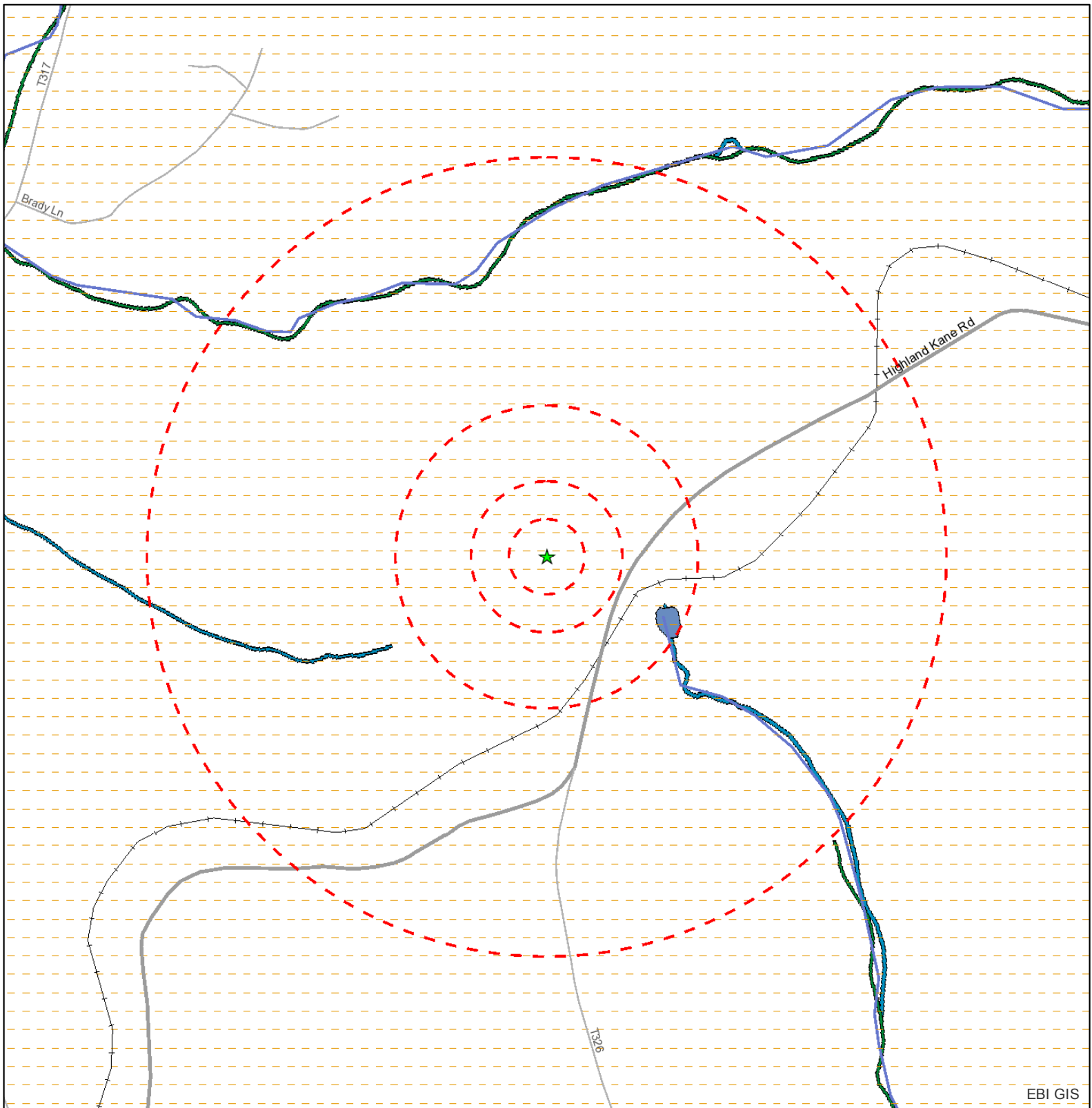
-  AZ - Areas of Environmental Concern
-  CA - Spotted Owl Territory
-  CA - NDDDB T & E Species
- CT - NDDDB Area Feature
-  CT - DEP Critical Habitat
- MA - NHESP Estimated Habitats of Rare Wildlife
- TX - Protected Species
-  MA - NHESP Priority Habitats of Rare Species
-  FL - Conservation Species
- MA - NHESP Certified Vernal Pool
-  NY - Important Bird Area
-  TX - Ecologically Unique Rivers Streams

Sources: AZ BLM Page http://www.blm.gov/az/st/en/prog/maps/gis_files.html; CNDDDB <http://www.dfg.ca.gov/biogeodata/cnddb/>; CT DEP http://www.ct.gov/deep/cwp/view.asp?a=2698&q=323342&deepNav_GID=1707%20; MAGIS <http://www.mass.gov/mgis/laylist.htm>; TX GIS <http://www.glo.state.tx.us/nri/data/index.html>; Florida Fish and Wildlife www.MyFWC.com; NY GIS Clearinghouse <http://gis.ny.gov/>

Federal & National Coverage Data Layers

-  USFWS Critical Habitat
-  USFWS Critical Habitat Area
-  National Park Service Land
-  National Wildlife Area or Refuge
-  Federally Owned Land
-  National Wilderness Areas
-  National Park Service Site
- FEMA Q3 Flood Zone 2006
-  500-year inundation area.
-  100-year inundation area.
-  100-year inundation area with velocity hazard.
-  Undetermined but possible flood hazard area.
-  Floodway area, including watercourse extent.
- No Flood Data No Flood Data Available

Sources: National Park Service http://www.nps.gov/gis/data_info/; USFWS <http://crithab.fws.gov/>; National Park Service <http://science.nature.nps.gov/nrdata/index.cfm>; The National Map <http://nationalmap.gov/>; USFW Wildlife Refuge System <http://www.fws.gov/refuges/>; Wilderness.net <http://www.wilderness.net/>; FEMA - Q3 Flood Data <https://msc.fema.gov>



Source: Selected data from ESRI & EBI.
See associated map legend for more details

Legend

- ★ Project Site
- Site Radius at 250', 500', 1000' and 1/2 mile

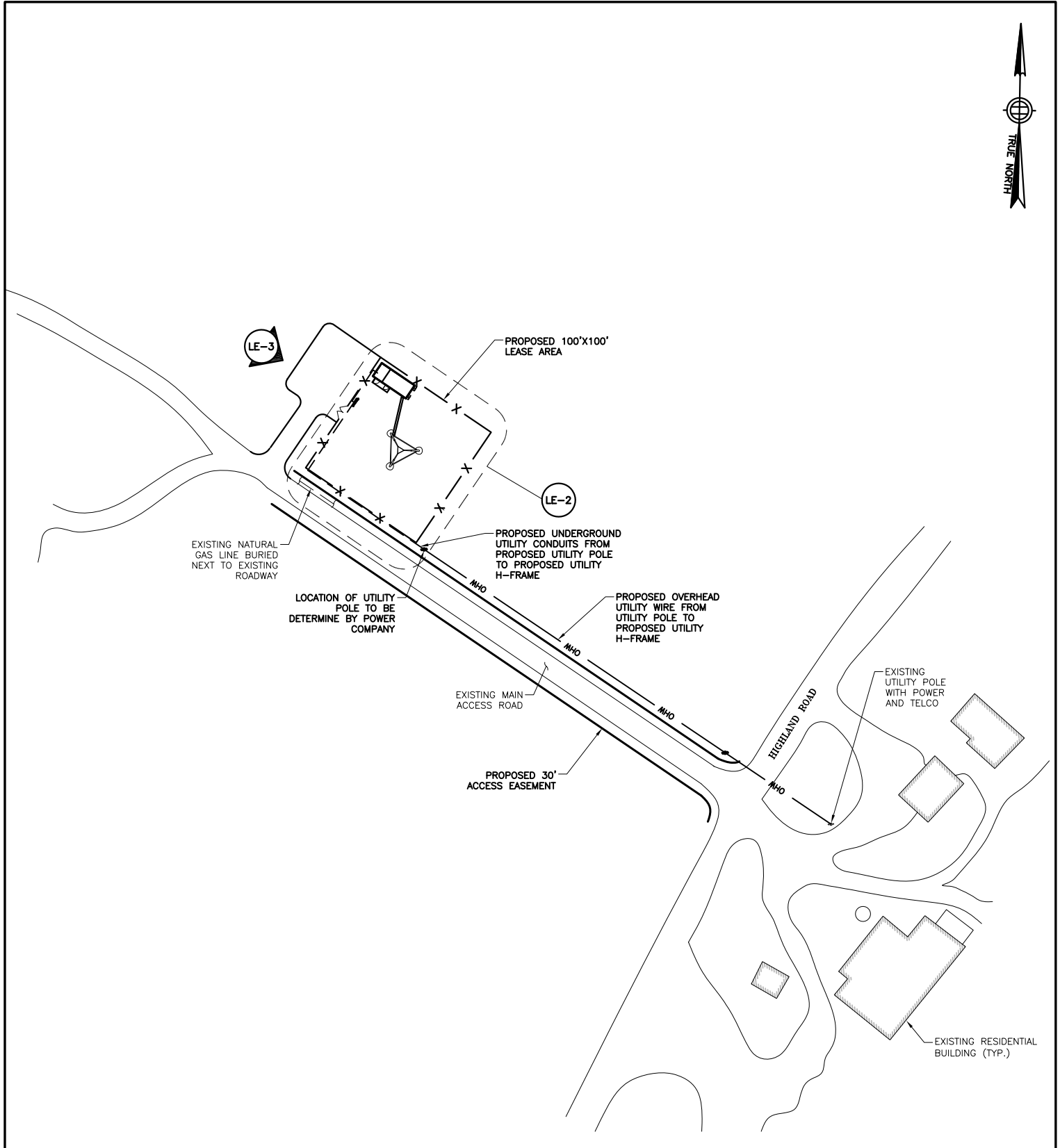
*See associated legend for additional map symbology



Date: 8/5/2016

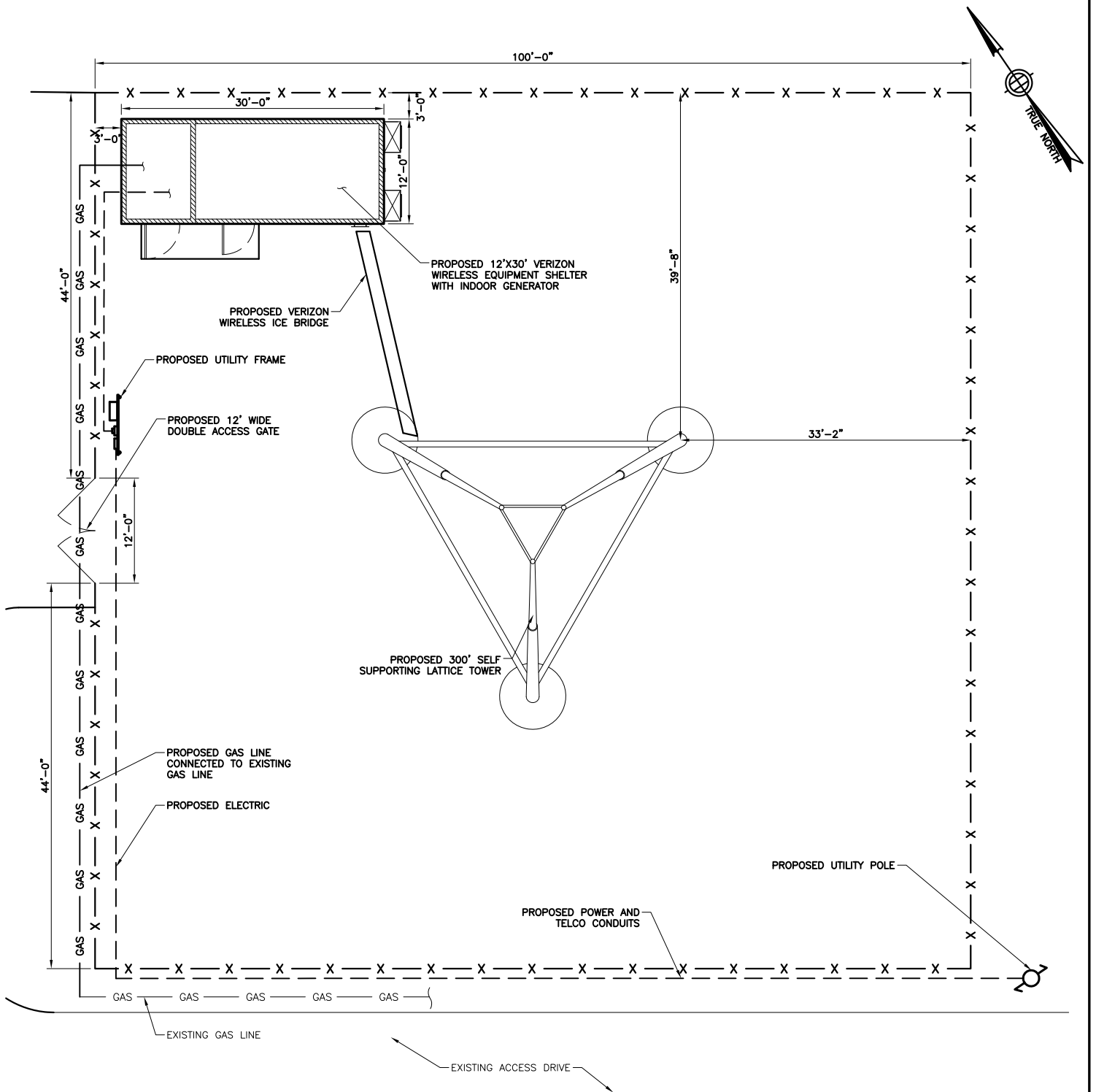


Land Resources Map
19752 KANE LAMONT RELO
3218 HIGHLAND ROAD
KANE, PA 16735



1

SUBMITTALS				DRAWN BY: SS	SHEET NO: LE-1
NO.	DATE	DESCRIPTION	BY		
1	12/19/13	FOR REVIEW	SS	CHECKED BY: JS	
				DATE: 12/19/13	



NOTE:
ALL EQUIPMENT LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO APPROVAL BY LESSEE/LICENSEE STRUCTURAL AND RF ENGINEERS.

EQUIPMENT PLAN

SCALE: 1/16" = 1'-0"

1



21 B Street
Burlington, MA 01803
Tel: 781.273.2500
Fax: 781.273.3311
www.ebiconsulting.com

EBI JOB NO.: 81131267

NORTHEAST PENNSYLVANIA SMSA, LP
d/b/a

verizonwireless

18 ABELE ROAD
BRIDGEVILLE, PA 15017
(717) 418-9935

SITE INFO:

**KANE LAMONT
RELO**

3218 HIGHLAND ROAD
KANE, PA 16735

SUBMITTALS

NO.	DATE	DESCRIPTION	BY	SS
1	12/19/13	FOR REVIEW	SS	CHECKED BY:
				JS
				DATE:
				12/19/13

DRAWN BY:

SS

CHECKED BY:

JS

DATE:

12/19/13

SHEET NO:

LE-2



Appendix B

Site Photographs



1. View north towards the proposed tower location.



2. View east towards the proposed tower location.



3. View south towards the proposed tower location.



4. View west towards the proposed tower location.



5. View southeast along the access to the lease area.



6. View southeast along the access to the lease area.



- | | |
|----|--|
| 7. | View northeast along Highland Road at the proposed entrance to the Site. |
|----|--|



- | | |
|----|--|
| 8. | View southwest along Highland Road at the proposed entrance to the Site. |
|----|--|

Appendix C

NEPA Supporting Documentation



Division of Environmental
Planning and Habitat
Protection
717-783-5957

COMMONWEALTH OF PENNSYLVANIA
Pennsylvania Game Commission
2001 ELMERTON AVENUE
HARRISBURG, PA 17110-9797

*"To manage all wild birds, mammals and their habitats
for current and future generations."*

ADMINISTRATIVE BUREAUS:

ADMINISTRATION.....	717-787-5670
HUMAN RESOURCES.....	717-787-7836
FISCAL MANAGEMENT.....	717-787-7314
CONTRACTS AND PROCUREMENT.....	717-787-6594
LICENSING.....	717-787-2084
OFFICE SERVICES.....	717-787-2116
WILDLIFE MANAGEMENT.....	717-787-5529
INFORMATION & EDUCATION.....	717-787-6286
WILDLIFE PROTECTION.....	717-783-6526
WILDLIFE HABITAT MANAGEMENT.....	717-787-6818
REAL ESTATE DIVISION.....	717-787-6568
AUTOMATED TECHNOLOGY SERVICES.....	717-787-4076

www.pgc.state.pa.us

July 28, 2016

Mr. Jason Stayer
EBI Consulting
1005 Elmwood Trail
Cedar Park, Texas 78613

PNDI Receipt: project_receipt_kane_lamont_relo_608763_FINAL_1.pdf
Re: Kane Lamont Relo
Highland Township, Elk County, Pennsylvania

Dear Mr. Stayer,

Thank you for submitting the above referenced project to the Pennsylvania Natural Diversity Inventory (PNDI) for review. The Pennsylvania Game Commission (PGC) screened this project for potential impacts to species and resources of concern under PGC responsibility, which includes birds and mammals only.

No Impact Anticipated

PNDI records indicate species or resources of concern are located in the vicinity of the project. However, based on the information you submitted concerning the nature of the project, the immediate location, and our detailed resource information, the PGC has determined that no impact is likely. Therefore, no further coordination with the PGC will be necessary for this project at this time.

This response represents the most up-to-date summary of the PNDI data files and is valid for two (2) years from the date of this letter. An absence of recorded information does not necessarily imply actual conditions on site. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered.

Should the proposed work continue beyond the period covered by this letter, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative and accurate map). If the proposed work has not changed and no additional information concerning listed species is found, the project will be cleared for PNDI requirements under this agency for two additional years.

This finding applies to impacts to birds and mammals only. To complete your review of state and federally-listed threatened and endangered species and species of special concern, please be sure that the U.S. Fish and Wildlife Service, the PA Department of Conservation and Natural Resources, and/or the PA Fish and Boat Commission have been contacted regarding this project as directed by the online PNDI ER Tool found at www.naturalheritage.state.pa.us.

Sincerely,



Olivia A. Braun
Environmental Planner
Division of Environmental Planning & Habitat Protection
Bureau of Wildlife Habitat Management
Phone: 717-787-4250, Extension 3128
Fax: 717-787-6957
E-mail: Olbraun@pa.gov

A PNHP Partner



OAB/oab

cc: File



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Pennsylvania Field Office
315 South Allen Street, Suite 322
State College, Pennsylvania 16801-4850

September 9, 2013

Chris Baird
EBI Consulting
21 B Street
Burlington, MA 01803

Dear Mr. Baird:

This letter is to inform you that our office will no longer be able to respond to individual cell tower projects, due to an imposed hiring freeze, the inability to back fill vacant positions, and other workload constraints. Therefore, we offer the following general guidance pursuant to the Endangered Species Act of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*), the Migratory Bird Treaty Act (16 U.S.C. 703-712; Ch. 128; July 13, 1918; 40 Stat. 755, as amended), the Bald and Golden Eagle Protection Act (54 Stat. 250, as amended; 16 U.S.C. 668-668d), and the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 *et seq.*) to assist you on future projects.

Federally Listed Species

If the project-specific Pennsylvania Natural Diversity Inventory (PNDI) receipt indicates that no known impacts to federally listed or proposed threatened or endangered species under our jurisdiction are anticipated, no further review is required with our agency pursuant to the Endangered Species Act. We ask that you only contact our office for further coordination if a PNDI receipt indicates that further review by our agency is required or you cannot adhere to recommended conservation measures to avoid impacts to listed species.

Assessment of Risks to Migratory Birds Including Eagles

The Service is the principal Federal agency charged with protecting and enhancing populations and habitat of migratory bird species. The Migratory Bird Treaty Act (MBTA) prohibits the taking, killing, possession, transportation, and importation of migratory birds, their eggs, parts, and nests, except when specifically authorized by the Department of the Interior. While the MBTA has no provision for authorizing incidental take, the Service recognizes that some birds may be killed even if all reasonable measures to avoid take are implemented.

In addition to protection under the MBTA, bald and golden eagles are protected under the Bald and Golden Eagle Protection Act, which prohibits killing; selling; or otherwise harming eagles,

their nests, or their eggs. The Eagle Act also includes provisions not found in the MBTA, including the protection of unoccupied nests and a definition of take that prohibits disturbing eagles. The Service recommends that applicants carefully evaluate their proposed project in light of the *National Bald Eagle Management Guidelines* to determine whether or not eagles might be disturbed as a direct or indirect result of the project. These guidelines as well as additional eagle information are available at <http://www.fws.gov/northeast/ecologicalservices/eagle.html>. Additionally, although the bald eagle is not listed as endangered or threatened at the federal level, the bald eagle is a Pennsylvania State-listed threatened species and therefore, it is protected under the Game and Wildlife Code. Therefore, the Service recommends that you contact the Pennsylvania Game Commission Headquarters Office at 717-787-4250 prior to commencement of work.

The potential exists for avian mortality from habitat destruction and alteration within the project boundaries associated with both the conversion of habitat to man-made structures and bird collisions with the new tower structures. If you haven't already done so, please review the *Service Interim Guidelines For Recommendations On Communications Tower Siting, Construction, Operation, and Decommissioning* available at <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html> for our suggestions to minimize impacts to migratory birds. In addition, please review the enclosed information for some additional recommendations compiled by our office for avoiding and minimizing impacts to migratory birds within and around tower sites.

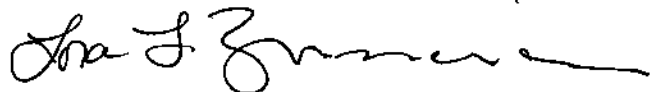
If you follow these recommended conservation measures to the extent practicable, no further review is required with our agency under the MBTA.

Aquatic Resources

If streams and wetlands will be affected by the proposed project, you should be aware that work in these waters requires permits from the Pennsylvania Department of Environmental Protection and/or the Army Corps of Engineers. We suggest you contact the DEP and the Corps for information about permit requirements. Please be advised that the Service generally recommends that the Corps and DEP not grant permits to destroy streams or wetlands. For example, siting and construction of access roads and stormwater detention facilities should avoid impacts to streams and wetlands.

Please contact Jennifer Siani of this office at (814) 234-4090 if you have any questions or require further assistance.

Sincerely,



Lora L. Zimmerman
Field Office Supervisor

Enclosure

Adaptive Management Practices for Conserving Migratory Birds

The Fish and Wildlife Service is the principal Federal agency charged with protecting and enhancing populations and habitat of migratory bird species. The Migratory Bird Treaty Act (MBTA, 16 U.S.C. 703-712; Ch. 128; July 13, 1918; 40 Stat. 755, as amended) prohibits the taking, killing, possession, transportation, and importation of migratory birds, their eggs, parts, and nests, except when specifically authorized by the Department of the Interior. While the MBTA has no provision for authorizing incidental take, the Service recognizes that some birds may be killed even if all reasonable measures to avoid take are implemented. Unless the take is authorized, it is not possible to absolve individuals, companies or agencies from liability (even if they implement avian mortality avoidance or similar conservation measures). However, the Office of Law Enforcement focuses on those individuals, companies, or agencies that take migratory birds with disregard for their actions and the law.

In addition to protection under the MBTA, bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (Eagle Act, 54 Stat. 250, as amended; 16 U.S.C. 668-668d), which prohibits killing; selling; or otherwise harming eagles, their nests, or their eggs. The Eagle Act also includes provisions not found in the MBTA, including the protection of unoccupied nests and a definition of take that prohibits disturbing eagles. The Service recommends that applicants carefully evaluate their proposed project in light of the *National Bald Eagle Management Guidelines* to determine whether or not eagles might be disturbed as a direct or indirect result of the project. These guidelines as well as additional eagle information are available at <http://www.fws.gov/northeast/ecologicalservices/eagle.html>. Additionally, although the bald eagle is not listed as endangered or threatened at the federal level, the bald eagle is a Pennsylvania State-listed threatened species and therefore, it is protected under the Game and Wildlife Code. Therefore, the Service recommends that you contact the Pennsylvania Game Commission Headquarters Office at 717-787-4250 prior to commencement of work.

The siting and construction of new towers creates a potentially significant impact on migratory birds, especially some 350 species of night-migrating birds. The primary factors that affect the magnitude of the risk to birds posed by a particular tower are the height of the structure above the surrounding landscape; whether the structure is lighted, and if so, the type of lighting employed; the use of guy wires; the location of the tower; and the weather patterns in the area of the tower site. Communication towers are estimated to kill 4-5 million birds per year. Most massive bird kills occur as the birds become attracted to and confused by clouds that are illuminated by tall lighted structures. To minimize such losses, *and to the extent not already addressed in your project design*, we recommend the following measures be implemented to protect migratory birds from collisions with towers:

1. Any company/licensee proposing to site a new communications tower is strongly encouraged to co-locate the communications equipment on an existing communication tower or related structure (*e.g.*, church steeple, billboard mount, monopole, or building mount). Depending on tower load factors, from 6-10 providers may co-locate on an existing tower.

2. If co-location is not feasible, providers are strongly encouraged to construct towers less than 200 feet above ground level, using construction techniques which do not require guy wires (*e.g.*, use a monopole). Such towers should be unlighted. If at all possible, new towers should be located within existing “antenna farms,” preferably in areas not used by migratory birds or listed species. Avoid siting towers in or near (within 3-5 miles) of wetlands, other known bird concentration areas (*e.g.*, IBAs, refuges), or in critical habitat of threatened or endangered species known to be affected by towers. Review local meteorological conditions, and avoid siting towers in areas with an especially high incidence of fog, mist, and low ceilings.
3. If taller (>200 feet above ground level) towers requiring lights for aviation safety must be constructed, the minimum amount of pilot warning and obstruction avoidance lighting required by the Federal Aviation Administration should be used. Wherever possible, non-flashing lights should not be used. (See Gehring J., P. Kerlinger, A.M. Manville II. 2009. Communication towers, lights, and birds: successful methods of reducing the frequency of avian collisions. *Ecological Applications*: Vol. 19, No. 2, pp. 505-514).
4. Towers which must use guy wires for support should have daytime visual markers on the wires to minimize collisions by these diurnally moving species, especially if constructed in known raptor or waterbird concentration areas. (See Avian Power Line Interaction Committee. 2006. Suggested practices for avian protection on power lines: the state of the art in 2006. Edison Electric Institute, APLIC, and the California Energy Commission. Washington, D.C. and Sacramento, CA.)
5. Towers should be constructed so as to limit or minimize habitat loss within the tower “footprint.” Road access and fencing should be minimized to reduce or prevent habitat fragmentation and disturbance, and to reduce above-ground obstacles to birds in flight. However, a larger tower footprint is preferable to the use of guy wires in construction.
6. Where disturbance is necessary, clear natural or semi-natural habitats (*e.g.*, forests, woodlots, reverting fields, shrubby areas) and perform maintenance activities (*e.g.*, mowing) between September 1 and March 31, which is outside the nesting season for most native bird species. Without undertaking specific analysis of breeding species and their respective nesting seasons on the project site, implementation of this seasonal restriction will avoid take of most breeding birds, their nests, and their young (*i.e.*, eggs, hatchlings, fledglings).
7. New towers should be designed structurally and electrically to accommodate the applicant’s antennas and comparable antennas for at least two additional users (minimum of three users required for each tower structure), in order to reduce the number of towers needed in the future, unless this design would require the addition of lights or guy wires to an otherwise unlighted and/or unguyed tower.
8. Security lighting for on-ground facilities and equipment should be down-shielded to keep light within the boundaries of the site.
9. If a tower is constructed, and if requested, Service personnel should be allowed access to the site after construction is complete to conduct both large (*e.g.*, crane, swan, and goose)

and small dead-bird searches, to place net catchments below the towers, and to place radar, Global Positioning System, infrared, thermal imagery, or acoustical monitoring equipment as necessary to assess and verify bird migrations and habitat use.

10. Towers no longer in use or determined to be obsolete should be removed within 12 months of cessation of use.

Additional information on this subject can be obtained by visiting the Service's migratory bird website at <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>.

If you have any questions regarding these measures, please contact Jennifer Siani of the Pennsylvania Field Office located in State College, PA at 814-234-4090 ext 225 or Jennifer_Siani@fws.gov

1. PROJECT INFORMATION

Project Name: **Kane Lamont Relo**

Date of Review: **7/22/2016 10:09:43 AM**

Project Category: **Communication, Cell or communication tower (include access roads in project area), new tower**

Project Area: **0.31 acres**

County(s): **Elk**

Township/Municipality(s): **HIGHLAND**

ZIP Code: **16734**

Quadrangle Name(s): **JAMES CITY**

Watersheds HUC 8: **Clarion; Middle Allegheny-Tionesta**

Watersheds HUC 12: **Big Mill Creek; South Branch Tionesta Creek-Tionesta Creek**

Decimal Degrees: **41.592720, -78.825107**

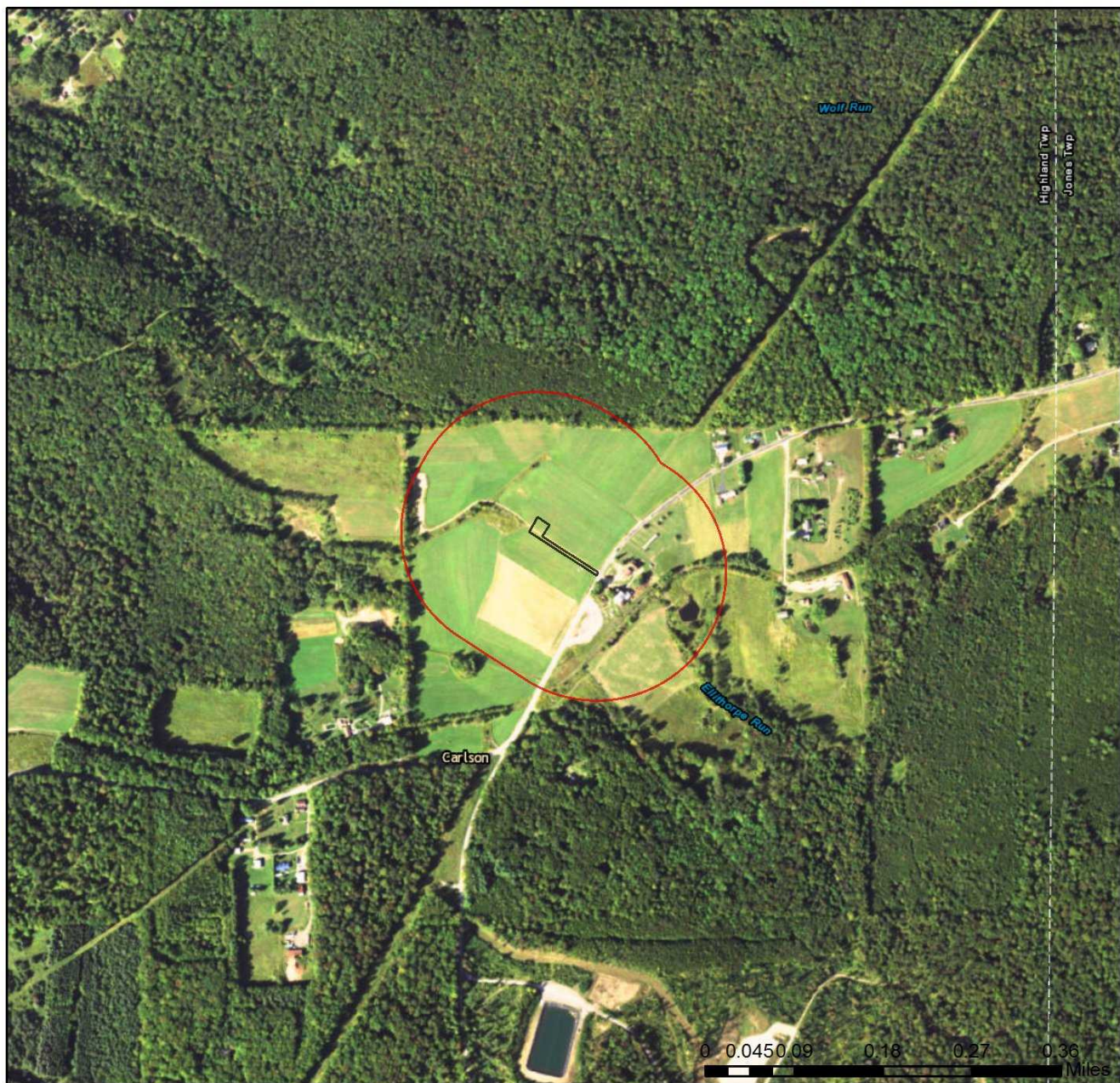
Degrees Minutes Seconds: **41° 35' 33.7911" N, 78° 49' 30.3857" W**


2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

Kane Lamont Relo

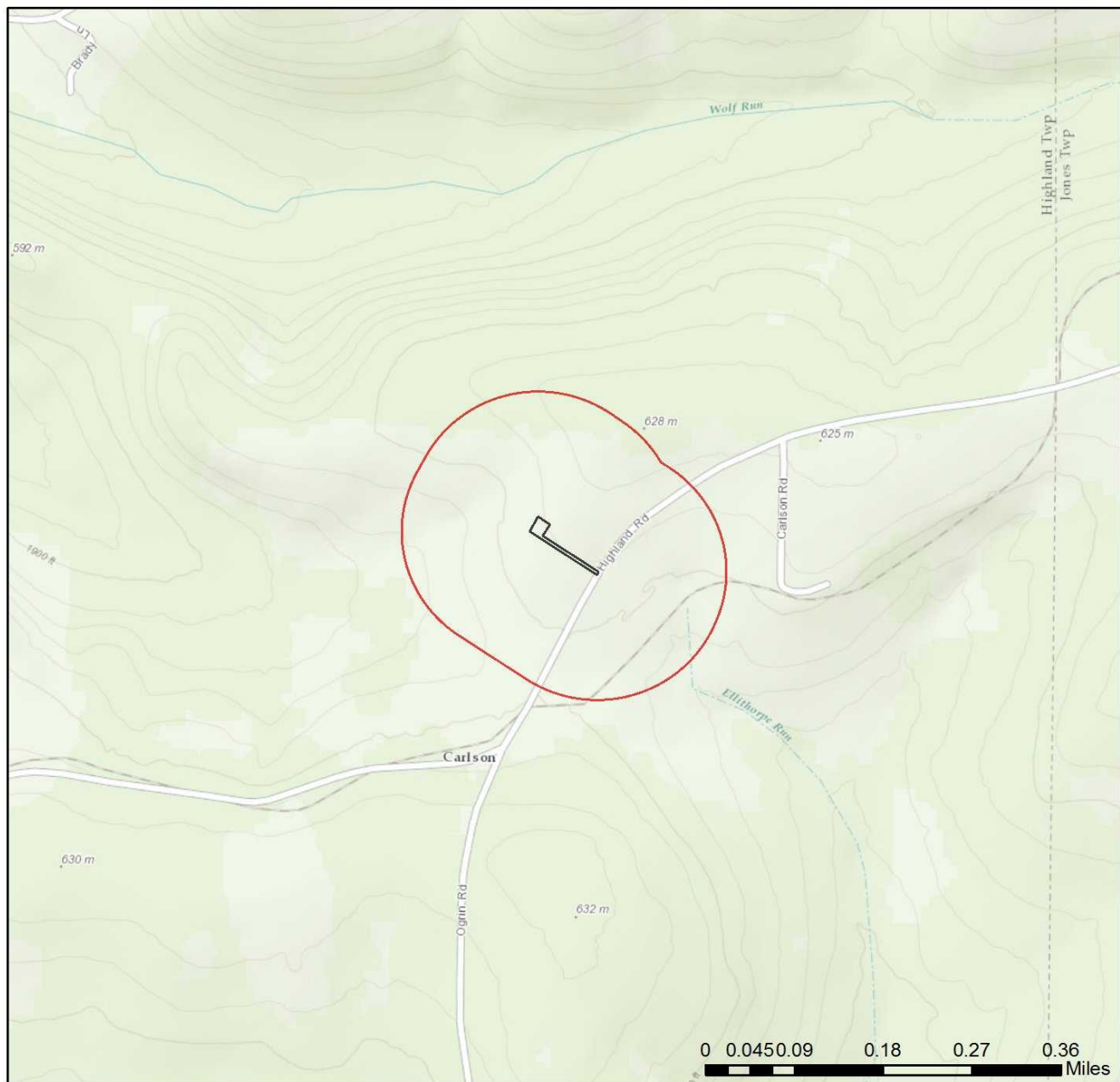


-  Project Boundary
-  Buffered Project Boundary



Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA,

Kane Lamont Relo



- ☐ Project Boundary
- ☐ Buffered Project Boundary

Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community



3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission

RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

PGC Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Scientific Name	Common Name	Current Status
Sensitive Species**		Special Concern Species*

PA Department of Conservation and Natural Resources

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

U.S. Fish and Wildlife Service

RESPONSE:

No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, upload* or email* the following information to the agency(s). Instructions for uploading project materials can be found [here](#). This option provides the applicant with the convenience of sending project materials to a single location accessible to all three state agencies. Alternatively, applicants may email or mail their project materials (see AGENCY CONTACT INFORMATION).

***Note:** U.S.Fish and Wildlife Service requires applicants to mail project materials to the USFWS PA field office (see AGENCY CONTACT INFORMATION). USFWS will not accept project materials submitted electronically (by upload or email).

Check-list of Minimum Materials to be submitted:

____ Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.

____ A map with the project boundary and/or a basic site plan (particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)

In addition to the materials listed above, USFWS REQUIRES the following

____ **SIGNED** copy of a Final Project Environmental Review Receipt

The inclusion of the following information may expedite the review process.

____ Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)

____ Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <https://conservationexplorer.dcnr.pa.gov/content/resources>.

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552
Harrisburg, PA 17105-8552
Email: RA-HeritageReview@pa.gov
Fax: (717) 772-0271

PA Fish and Boat Commission

Division of Environmental Services
450 Robinson Lane, Bellefonte, PA 16823
Email: RA-FBPACENOTIFY@pa.gov

U.S. Fish and Wildlife Service

Pennsylvania Field Office
Endangered Species Section
110 Radnor Rd; Suite 101
State College, PA 16801
NO Faxes Please

PA Game Commission

Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA 17110-9797
Email: RA-PGC_PNDI@pa.gov
NO Faxes Please

7. PROJECT CONTACT INFORMATION

Name: Jason Stayer
Company/Business Name: EBI Consulting
Address: 3703 Long Beach Blvd, Ste 421
City, State, Zip: Long Beach, CA 90807
Phone: (512) 914-8615 Fax: ()
Email: jstayer@ebiconsulting.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

Jason Stayer
applicant/project proponent signature

September 26, 2016
date

July 26, 2016

Pennsylvania Game Commission
Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA 17110-9797
RA-PGC_PNDI@pa.gov

**Subject: Trust Resources Review
Proposed Communications Facility
Site Identifier: Kane Lamont Relo / Ensite #19752
Site Address: 3218 Highland Road, Kane, Elk County, PA 16735
Latitude / Longitude: 41° 35' 34.57" / 78° 49' 29.89"
EBI Project No. 6114005635**

To Whom It May Concern:

EBI Consulting (EBI) is conducting an environmental review of the above-referenced proposed communications facility. At the request of Cellco Partnership and its controlled affiliates doing business as Verizon Wireless (Verizon Wireless), EBI is submitting the information contained herein for your review and comment with respect to the potential impacts of the proposed facility on jurisdictional trust resources of the Pennsylvania Game Commission.

For complete details, please refer to the attached Natural Resource Review (Review), which includes a review of protected species and associated habitats identified as being potentially present at or within immediate proximity to the proposed communications installation.

Based on the results of this Review as summarized herein, it is the opinion of EBI that the proposed communications facility will have no effect on identified protected species. Please find the attached document for specific details / information.

Should you have questions or wish to discuss this further, please contact me at jstayer@ebiconsulting.com or by phone at (512) 914-8615.

Sincerely,



Mr. Jason Stayer
Author / Biologist

Attachments: Natural Resource Review

NATURAL RESOURCE REVIEW

Natural Resource Review

July 26, 2016

RE: Proposed Communications Facility
Site Identifier: Kane Lamont Relo / Ensite #19752
Site Address: 3218 Highland Road, Kane, Elk County, PA 16735
Latitude / Longitude: 41° 35' 34.57" / 78° 49' 29.89"
EBI Project No. 6114005635

On behalf of Cellco Partnership and its controlled affiliates doing business as Verizon Wireless (Verizon Wireless), EBI Consulting (EBI) has prepared the following Natural Resource Review (the Review) for the proposed location of the above-referenced telecommunications installation (herein, the Site). This Review was completed as a part of EBI's National Environmental Policy Act (NEPA) review of the proposed telecommunications facility, and focused on identifying potential impacts to federally-protected land, protected species, flood zones and wetlands, which may require further environmental review per Federal Communications Commission (FCC) Rules Implementing NEPA [47 CFR 1.1307(a).]

Please note that EBI prepared this Review using only readily-available online resources and visual observations made during EBI's site walk at the Site on June 19, 2014. This Review is designed to provide baseline evaluation of the potential for the proposed installation to affect on-site natural resources (including protected species) and to determine if additional review, on-site surveys, or consultation is required.

PROJECT SUMMARY

As of the date of this Review, Verizon Wireless is proposing to install a new telecommunications facility to consist of a 309-foot self-support lattice tower, with panel antennas mounted at 295 feet above grade. The tower and support equipment, including a 12-foot by 30-foot equipment shelter and generator, will be located within a fenced compound within a 100-foot by 100-foot lease area. A 30-foot wide access and utility easement will extend southeast from the lease area to Highland Road. Utilities will be routed underground within this easement. An overhead utility wire will also be installed leading from a proposed utility pole at the southern corner of the lease area to an existing utility pole across Highland Road. Please see the attached drawings for complete details.

PROPERTY AND VICINITY DESCRIPTION

The Subject Property consists of an approximately 74.1 acre lot that is predominantly agricultural land and vacant woodland with no existing above ground improvements. A natural gas pipeline is present along the southeastern portion of the Subject Property. The area of the proposed installation currently consists of agricultural lands (i.e. hay production).

Land north, south, east and west of the Site consists of agricultural lands bordered by deciduous hardwood forest.

FEDERAL LANDS REVIEW

EBI reviewed available online resources to determine if the proposed telecommunications facility is located within one mile of certain federally-protected lands. The following table outlines EBI's review.

FEDERALLY-PROTECTED LAND Jurisdictional Agency / Resource	<i>Within Boundary / Within One Mile</i>	
	YES	NO
Wilderness Area [47 CFR §1.1307(a)(1)] National Wilderness Preservation System (NWPS) National Park Service (NPS); U.S. Forest Service (USFS); U.S. Fish and Wildlife Service (USFWS); Bureau of Land Management (BLM) http://www.wilderness.net/index.cfm?fuse=NWPS	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Wildlife Preserve [47 CFR §1.1307(a)(2)] National Wildlife Refuge System (NWRS) NPS; USFS; USFWS; BLM http://www.fws.gov/refuges	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Wild & Scenic Rivers NPS; USFS; USFWS; BLM http://www.rivers.gov	<input type="checkbox"/>	<input checked="" type="checkbox"/>
National Scenic Trail NPS and Managing Systems and Trails Organization (MSTO) http://www.nps.gov/nrcr/programs/nts/nts_trails.html	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments: The Subject Property is located on a private inholding within the Allegheny National Forest.		

Additionally, a review of federal lands mapping (www.nationalatlas.gov) and information provided by the client, the proposed communications facility is located on a private inholding within the Allegheny National Forest, which is managed by the U.S. Forest Service.

PROTECTED SPECIES REVIEW

EBI reviewed online resources maintained by the USFWS through use of the Pennsylvania Natural Diversity Inventory (PNDI), to identify any federally-listed threatened and endangered species that are known to occur within the Project Site area. Based on the results of the PNDI review, 'No known Impact' was determined for the U.S. Fish and Wildlife Service, PA Department of Conservation and Natural Resources, and PA Fish and Boat Commission, and as such no further consultation is required. Please see the attached PNDI receipt. In a letter dated September 9, 2013, the USFWS stated 'If the project-specific PNDI receipt indicates that no known impacts to federally listed or proposed threatened or endangered species under our jurisdiction are anticipated, no further review is required with our agency pursuant to the Endangered Species Act. However, the PNDI receipt did indicate that further consultation was required by the Pennsylvania Game Commission. As such, EBI is sending this Review to the PGC for further review.

Additionally, EBI reviewed online resources maintained by the USFWS (<http://ecos.fws.gov/ipac/>) to identify any federally-listed threatened and endangered species that are known to occur within the vicinity of the Site. Based on EBI's research of online files maintained by the USFWS, one (non-aquatic) federally-protected (i.e. endangered or threatened) species is known to occur within the vicinity of the Project Site.

Please note however, although federal and state listed threatened and endangered species were identified as being potentially present within the vicinity of the Facility, the location of the proposed facility has been extensively disturbed via land conversion for agricultural practices (i.e. hay production). In addition, surrounding lands support additional agricultural lands. As such, suitable habitats capable of supporting the listed threatened and endangered species were not noted at the Project Site location. As such, the proposed installation is anticipated to have 'No Effect' on listed species and per the guidelines set forth in Section 7 of the Endangered Species Act (<http://www.fws.gov/endangered/what-we-do/faq.html>) no further consultation with the USFWS is required.

Additional Considerations

Consideration should also be given to the potential impacts of the construction and ongoing operation of the proposed installation on species protected under the Migratory Bird Treaty Act (MBTA) and ESA. On September

27, 2013, the USFWS issued their *Interim Guidelines for Recommendations on Communications Tower Siting, Construction, Operation, and Decommissioning* (see <http://www.fws.gov/migratorybirds/PDFs/USFWS2013RevisedGuidanceCommTowers27Sept13.pdf>). The USFWS *Interim Guidelines* are considered voluntary federal recommendations; however, EBI recommends they be followed to the extent feasible to minimize and/or avoid potential adverse impacts to migratory birds.

The proposed tower will be a 309-foot self-support lattice tower (i.e. no guyed wires) with lighting. As such, it meets some of the USFWS's tower siting and design recommendations, with the exception of the tower height and the use of tower lighting. The proposed tower height is required to meet operational and service coverage objectives. However, the tower will also subsequently accommodate future antenna collocations, thereby reducing the need for future towers in the immediate vicinity. The proposed lighting to be installed is currently required under Federal Aviation Administration (FAA) regulations.

FLOOD ZONE REVIEW

Based on EBI's review of the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (www.fema.gov; Map Number 42047C0130D), the proposed Project Site is located within an area identified as Zone X and therefore is not within a 100-year floodplain.

WETLANDS REVIEW

EBI reviewed the USFWS National Wetlands Inventory (NWI) map depicting the proposed Site and its immediate vicinity (see attached). The NWI map depicts no wetlands located within 300 feet of the Subject Property. Further, EBI did not observe any readily identifiable wetlands or wetland characteristics (e.g. standing water, hydrophytic vegetation, soil saturation and inundation, drainage patterns and sediment deposition, watermarks and drift lines on trees and vegetation, or water stained leaves) at the Project Site.

EBI also reviewed the United States Department of Agriculture (USDA), Natural Resource Conservation Service (NRCS) Web Soil Survey (WSS) for the proposed location of the telecommunications facility and its immediate vicinity. According to EBI's review, soils at the Site consist of Cavode silt loam, 3 to 8 percent slopes & Cavode silt loam, 8 to 15 percent slopes. Both soils are considered somewhat poorly drained soil that supports a water table about 6 – 18 inches below the soil surface with a restrictive layer at 40 – 90 inches below the soil surface. Both soils are listed as hydric by the NRCS (<http://soils.usda.gov/use/hydric/>) when associated with depressions. Note the Site is not located within a digressional area and therefore would not likely support hydric conditions.

Based on EBI's review as summarized above, the proposed communications facility installation is not anticipated to impact identified wetlands.

FINDINGS AND CONCLUSIONS

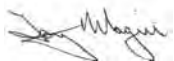
Based on the results of EBI's review as summarized herein, the proposed communications facility is:

- Anticipated to have 'no effect' on listed protected species associated or critical habitats;
- Not within the boundaries of, or within one mile of federally-protected land (i.e. wildlife preserves, wilderness areas, etc.);
- Not within the boundaries of a FEMA-designated 100-year flood zone; and
- Not anticipated to result in a significant change to surface features.


As such, EBI recommends no further review with regard to the potential for impacts on the natural resources evaluated in this report.

EBI is an independent contractor, not an employee of either the property owner or the project proponent, and its compensation was not based on the findings or recommendations made in this Review or on the closing of any business transaction.

Sincerely,



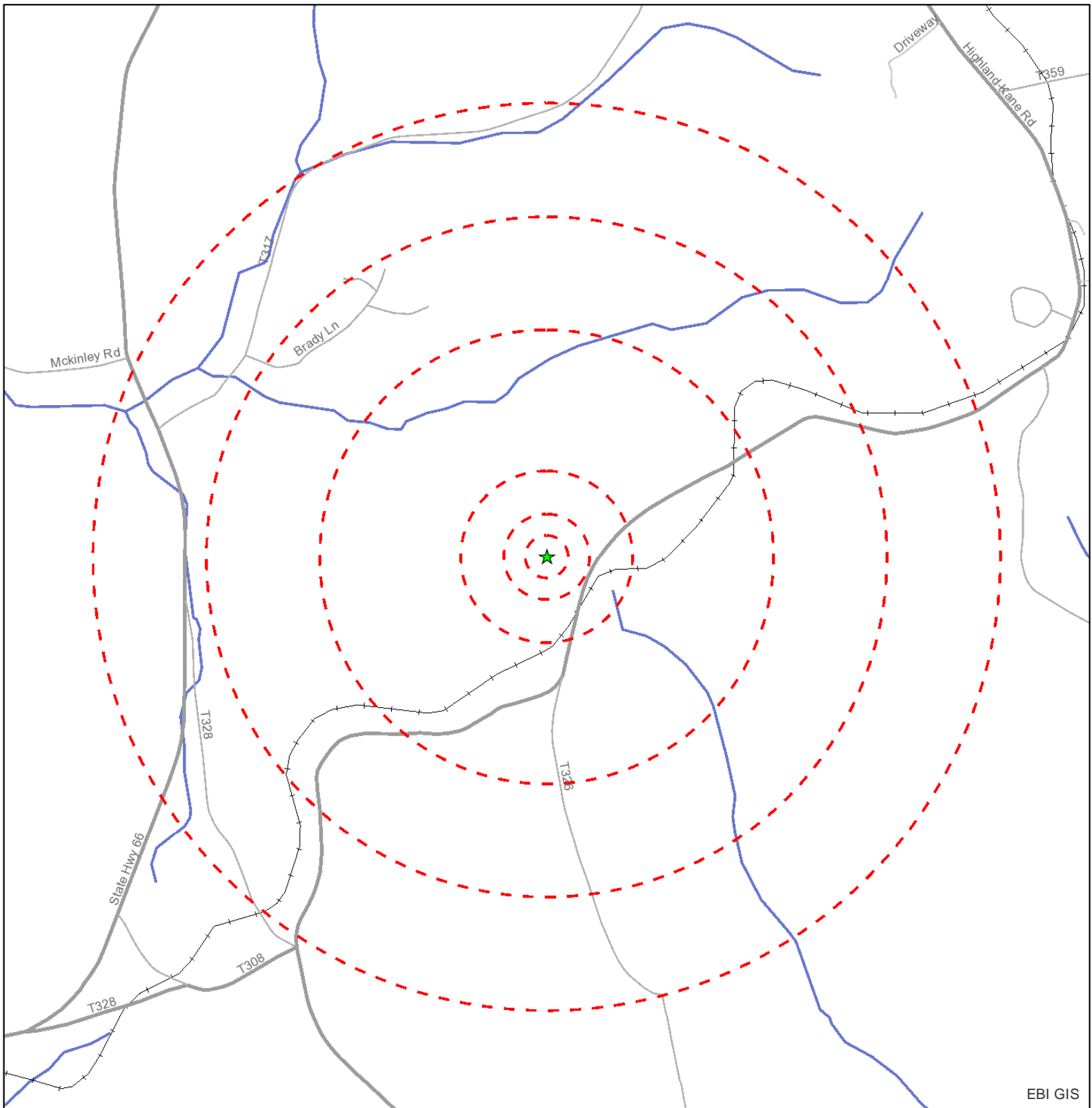
Mr. Tony Maguire, PWS
Wetland Biologist



Mr. Jason Stayer
Biologist

Attachments: Figures & Drawings
 Photographs
 Species Review Documentation
 Supporting Documentation
 Qualifications

FIGURES & DRAWINGS



Legend

- ★ Project Site
- Site Radius at 250', 500', 1000', 1/2, 3/4 & 1 mile

Source: Selected data from ESRI, EBI & USGS

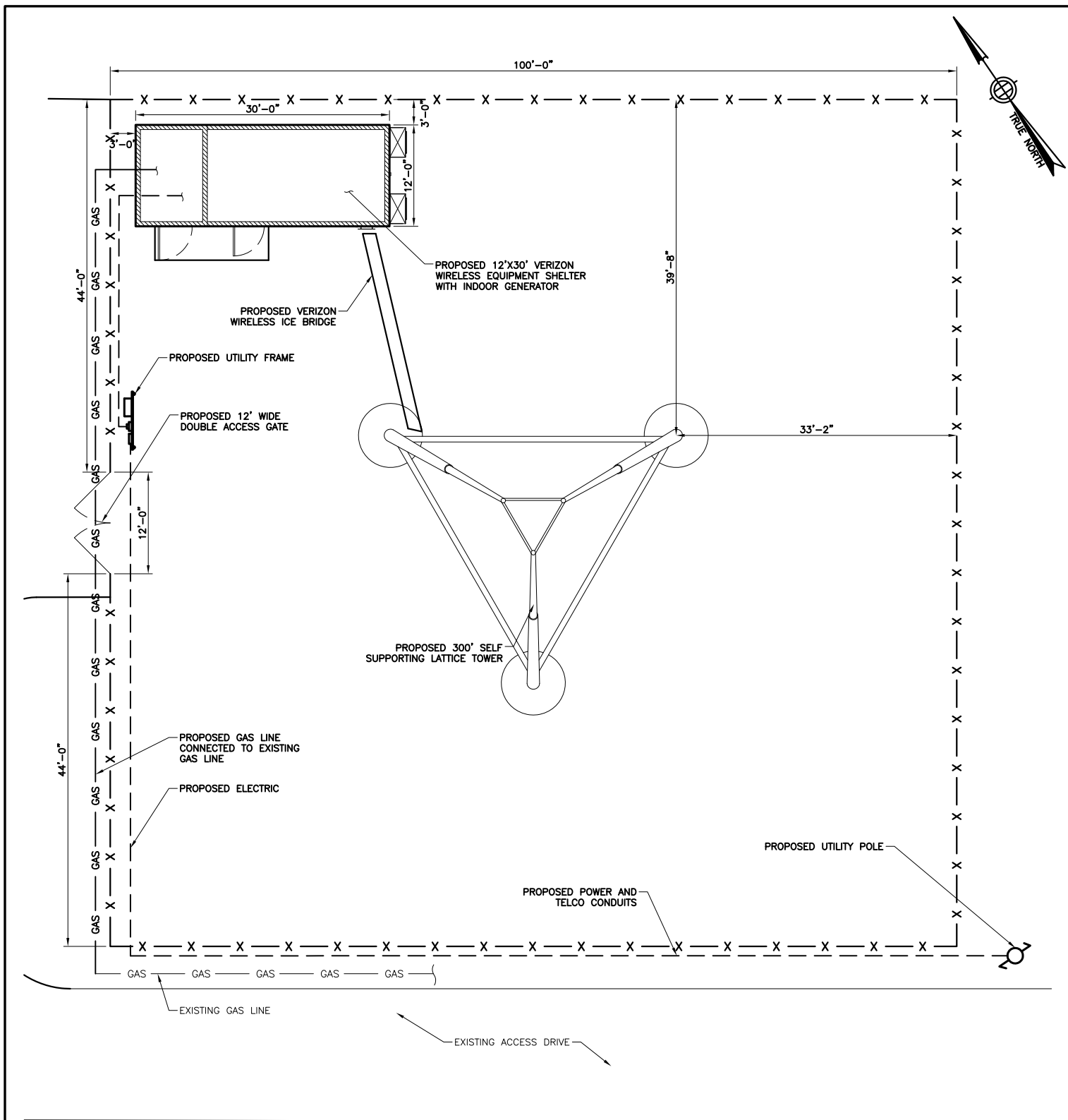


Date: 6/18/2014

Figure 1: Site Location Map



19752 KANE LAMONT RELO
3218 HIGHLAND ROAD
KANE, PA 16735



NOTE:
ALL EQUIPMENT LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO APPROVAL BY LESSEE/LICENSEE STRUCTURAL AND RF ENGINEERS.

EQUIPMENT PLAN

SCALE: 1/16" = 1'-0"

1



21 B Street
Burlington, MA 01803
Tel: 781.273.2500
Fax: 781.273.3311
www.ebiconsulting.com

EBI JOB NO.: 81131267

NORTHEAST PENNSYLVANIA SMSA, LP
d/b/a

verizonwireless

18 ABELE ROAD
BRIDGEVILLE, PA 15017
(717) 418-9935

SITE INFO:

**KANE LAMONT
RELO**

3218 HIGHLAND ROAD
KANE, PA 16735

SUBMITTALS

NO.	DATE	DESCRIPTION	BY	SS
1	12/19/13	FOR REVIEW	SS	CHECKED BY:
				JS
				DATE:
				12/19/13

DRAWN BY:

SS

CHECKED BY:

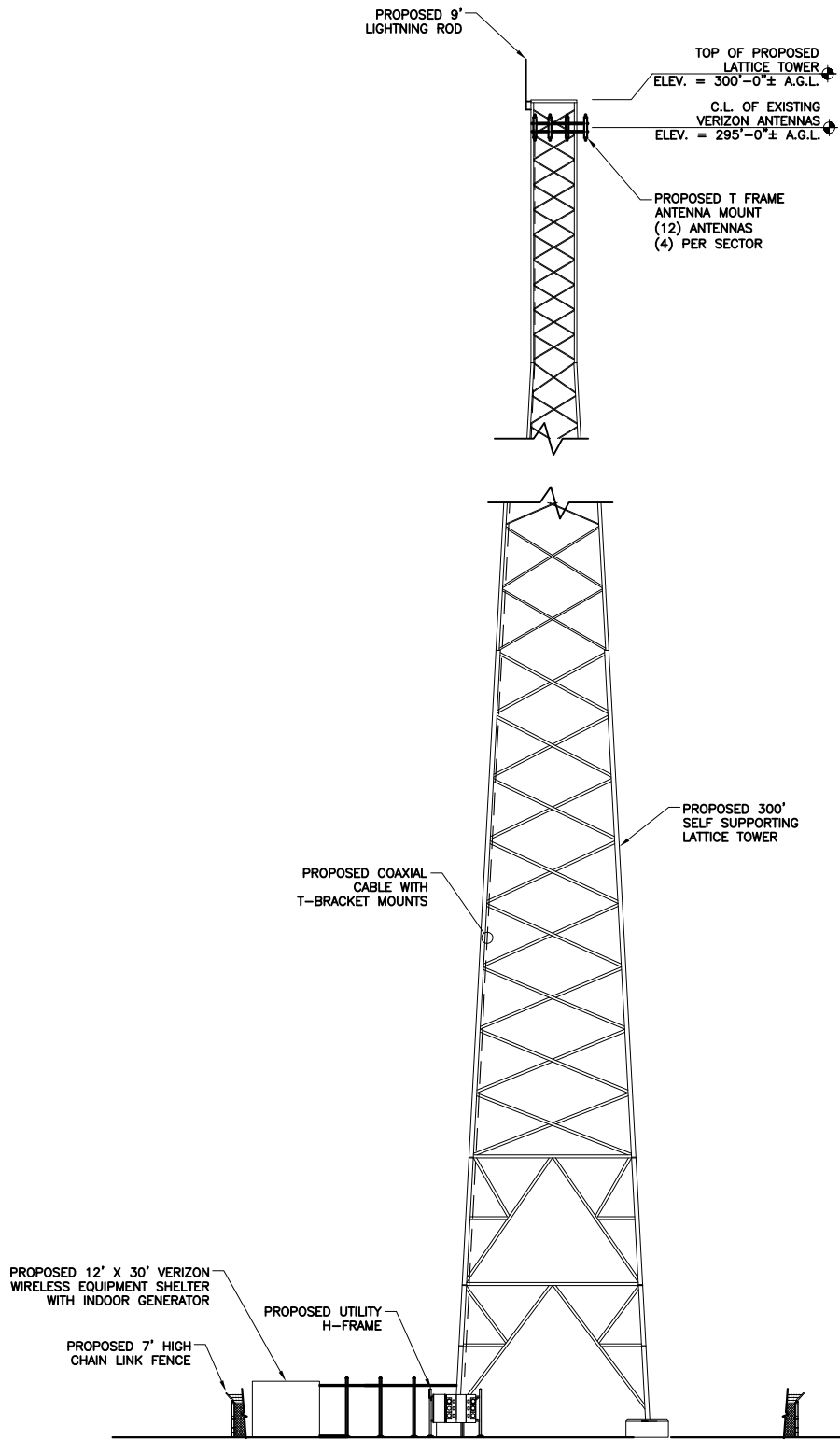
JS

DATE:

12/19/13

SHEET NO:

LE-2



NOTE:
ALL EQUIPMENT LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO APPROVAL BY LESSEE/LICENSEE STRUCTURAL AND RF ENGINEERS.

ELEVATION

SCALE: 1/32" = 1'-0"

1



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SUBMITTALS

NO.	DATE	DESCRIPTION	BY	SS
1	12/19/13	FOR REVIEW	SS	

DRAWN BY:

SS

CHECKED BY:

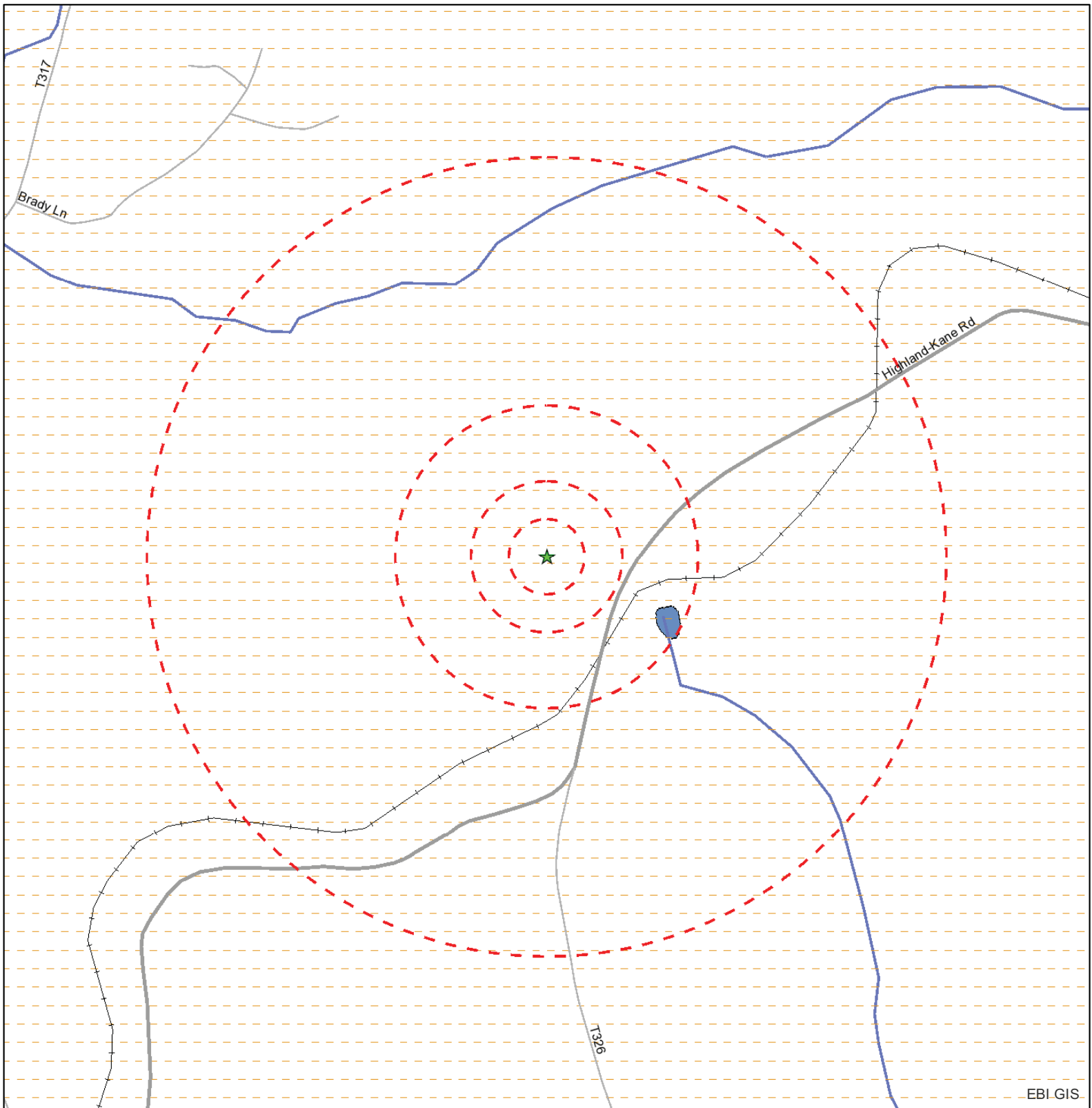
JS

DATE:

12/19/13

SHEET NO:

LE-3



Legend

- ★ Project Site
- Site Radius at 250', 500', 1000' and 1/2 mile

Source: Selected data from ESRI & EBI.
See associated map legend for more details



Date: 8/14/2014

*See associated legend for additional map symbology

Land Resources Map

19752 KANE LAMONT RELO
3218 HIGHLAND ROAD
KANE, PA 16735



Land Resources Legend

Scenic Parkways, Rivers & Trails

-  National Scenic Parkway
-  National Park Service Trail / Appalachian Trail
- AZ - BLM Historic Trail
- CT - DEP Trail
- MT - Lewis & Clark Trail
- NY - Trails
-  NY - Scenic Landmark Area
-  NY - Statewide Area of Scenic Significance
-  National Wild, Scenic River
-  CA - Wild Scenic River
- MT - Wild Scenic River

Sources: National Park Service http://www.nps.gov/gis/data_info/; Bureau of land management <http://www.blm.gov/wo/st/en.html>; CT DEP http://www.ct.gov/deep/cwp/view.asp?a=2698&q=323342&deepNav_GID=1707%20; NY GIS Clearinghouse <http://gis.ny.gov/>; National W & S Rivers <http://www.rivers.gov/rivers/mapping-gis.php>; Montana GIS <http://hrris.mt.gov/gis>; California Atlas <http://atlas.ca.gov/>



State Conservation, Lands & Wildlife Areas

-  CT - DEP Property
- CO - Public Access Wildlife Area
- FL - Wildlife Management Area
- MT - National Wildlife Refuge
- NH - WMNF Management Area
- ME - Conservation Land
- TN - Wildlife Resource Land
- TX - State Park or Wildlife Mgt Area
-  TX - Audubon Sanctuary
-  CT - DEP Municipal and Open Space
- NH - Conservation Land
- NY - DEC State Lands
-  NY - Agricultural District









Sources: CT DEP http://www.ct.gov/deep/cwp/view.asp?a=2698&q=323342&deepNav_GID=1707%20; CO Wildlife Space http://ndis.nrel.colostate.edu/ftp/ftp_response.asp; Florida Fish and Wildlife www.MyFWC.com; Montana GIS <http://hrris.mt.gov/gis>; NH GRANIT http://www.granit.unh.edu/data/download/free_data; ME GIS <http://megis.maine.gov/catalog>; TN GIS <http://www.state.tn.us/environment/parks/gis/data/>; TX GIS <http://www.glo.state.tx.us/nri/data/index.html>; NY GIS Clearinghouse <http://gis.ny.gov/>

US FWS NWI

Wetland Type














-  Freshwater Emergent Wetland
-  Freshwater Forested/Shrub Wetland

State Endangered Threatened & Protected Species

-  AZ - Areas of Environmental Concern
-  CA - Spotted Owl Territory
-  CA - NDDDB T & E Species
- CT - NDDDB Area Feature
-  CT - DEP Critical Habitat
- MA - NHESP Estimated Habitats of Rare Wildlife
- TX - Protected Species
-  MA - NHESP Priority Habitats of Rare Species
-  FL - Conservation Species
- MA - NHESP Certified Vernal Pool
- ME - Candidate Vernal Pool
-  NY - Important Bird Area
-  TX - Ecologically Unique Rivers Streams

Sources: AZ BLM Page http://www.blm.gov/az/st/en/prog/maps/gis_files.html; CNDDDB <http://www.dfg.ca.gov/biogeodata/cnddb/>; CT DEP http://www.ct.gov/deep/cwp/view.asp?a=2698&q=323342&deepNav_GID=1707%20; MAGIS <http://www.mass.gov/mgis/laylist.htm>; TX GIS <http://www.glo.state.tx.us/nri/data/index.html>; Florida Fish and Wildlife www.MyFWC.com; NY GIS Clearinghouse <http://gis.ny.gov/>

Federal & National Coverage Data Layers

-  USFWS Critical Habitat
-  USFWS Critical Habitat Area
-  National Park Service
-  National Wildlife Area or Refuge
-  Federally Owned Land
-  National Wildmess Areas
-  National Park Service Site
- FEMA Q3 Flood Zone 2006
-  500-year inundation area.
-  100-year inundation area.
-  100-year inundation area with velocity hazard.
-  Area not included on any FIRM publication.
-  Undetermined but possible flood hazard area.
-  Floodway area, including watercourse extent.
- No Flood Data No Flood Data Available

Sources: National Park Service http://www.nps.gov/gis/data_info/; USFWS <http://criticab.fws.gov/>; National Park Service <http://science.nature.nps.gov/nrdata/index.cfm>; The National Map <http://nationalmap.gov/>; FEMA - Q3 Flood Data <https://msc.fema.gov>

PHOTOGRAPHS



1. View North at proposed tower location



2. View Northeast at proposed tower location



3. View East at proposed tower location



4. View Southeast at proposed tower location



5. View South at proposed tower location



6. View Southwest at proposed tower location

SPECIES REVIEW DOCUMENTATION



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Pennsylvania Ecological Services Field Office
110 Radnor Road, Suite 101
STATE COLLEGE, PA 16801
PHONE: (814)234-4090 FAX: (814)234-0748
URL: www.fws.gov/northeast/pafo/

Consultation Code: 05E2PA00-2016-SLI-1170

July 22, 2016

Event Code: 05E2PA00-2016-E-05195

Project Name: Kane Lamont Relo / Ensite #19752

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

Any activity proposed on National Wildlife Refuge lands must undergo a "Compatibility Determination" conducted by the Refuge. Please contact the individual Refuge to discuss any questions or concerns.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment



United States Department of Interior
Fish and Wildlife Service

Project name: Kane Lamont Relo / Ensite #19752

Official Species List

Provided by:

Pennsylvania Ecological Services Field Office

110 Radnor Road, Suite 101

STATE COLLEGE, PA 16801

(814) 234-4090

<http://www.fws.gov/northeast/pafo/>

Consultation Code: 05E2PA00-2016-SLI-1170

Event Code: 05E2PA00-2016-E-05195

Project Type: COMMUNICATIONS TOWER

Project Name: Kane Lamont Relo / Ensite #19752

Project Description: Construction of a 309-foot self-support lattice tower, with panel antennas mounted at 295 feet above grade. The tower and support equipment, including a 12-foot by 30-foot equipment shelter and generator, will be located within a fenced compound within a 100-foot by 100-foot lease area.

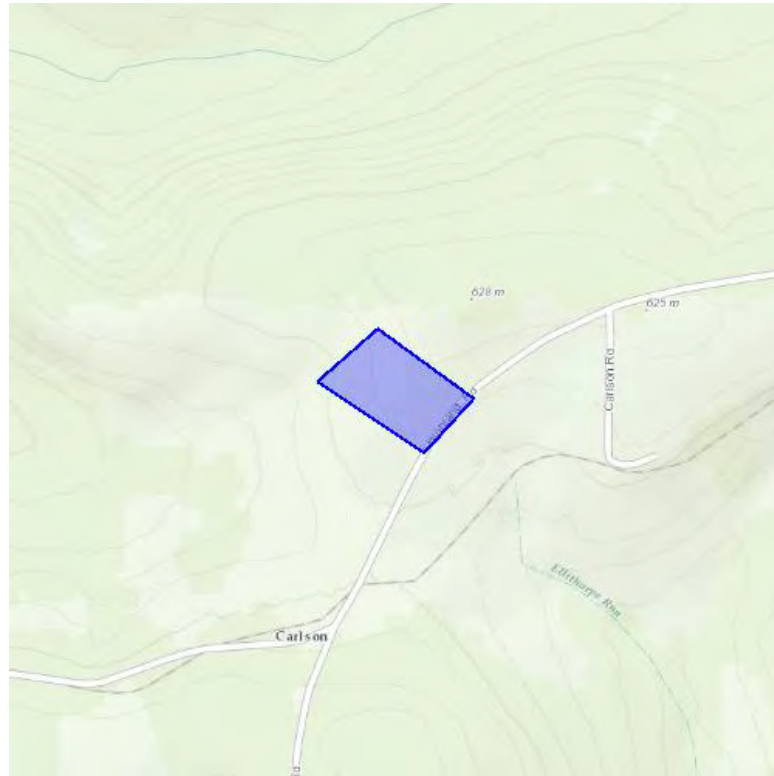
Please Note: The FWS office may have modified the Project Name and/or Project Description, so it may be different from what was submitted in your previous request. If the Consultation Code matches, the FWS considers this to be the same project. Contact the office in the 'Provided by' section of your previous Official Species list if you have any questions or concerns.



United States Department of Interior
Fish and Wildlife Service

Project name: Kane Lamont Relo / Ensate #19752

Project Location Map:



Project Coordinates: MULTIPOLYGON (((-78.82508039474487 41.59398235888389, -78.82625386118887 41.59321006821059, -78.82414162158966 41.59215692967413, -78.8231760263443 41.59295932249845, -78.82508039474487 41.59398235888389)))

Project Counties: Elk, PA



United States Department of Interior
Fish and Wildlife Service

Project name: Kane Lamont Relo / Ensite #19752

Endangered Species Act Species List

There are a total of 2 threatened or endangered species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

Clams	Status	Has Critical Habitat	Condition(s)
rabbitsfoot (<i>Quadrula cylindrica</i> ssp. <i>cylindrica</i>)	Threatened	Final designated	
Mammals			
Northern long-eared Bat (<i>Myotis septentrionalis</i>)	Threatened		



United States Department of Interior
Fish and Wildlife Service

Project name: Kane Lamont Relo / Ensite #19752

Critical habitats that lie within your project area

There are no critical habitats within your project area.



United States Department of Interior
Fish and Wildlife Service

Project name: Kane Lamont Relo / Ensite #19752

Appendix A: FWS National Wildlife Refuges and Fish Hatcheries

There are no refuges or fish hatcheries within your project area.

1. PROJECT INFORMATION

Project Name: **Kane Lamont Relo**

Date of Review: **7/22/2016 10:09:43 AM**

Project Category: **Communication, Cell or communication tower (include access roads in project area), new tower**

Project Area: **0.31 acres**

County(s): **Elk**

Township/Municipality(s): **HIGHLAND**

ZIP Code: **16734**

Quadrangle Name(s): **JAMES CITY**

Watersheds HUC 8: **Clarion; Middle Allegheny-Tionesta**

Watersheds HUC 12: **Big Mill Creek; South Branch Tionesta Creek-Tionesta Creek**

Decimal Degrees: **41.592720, -78.825107**

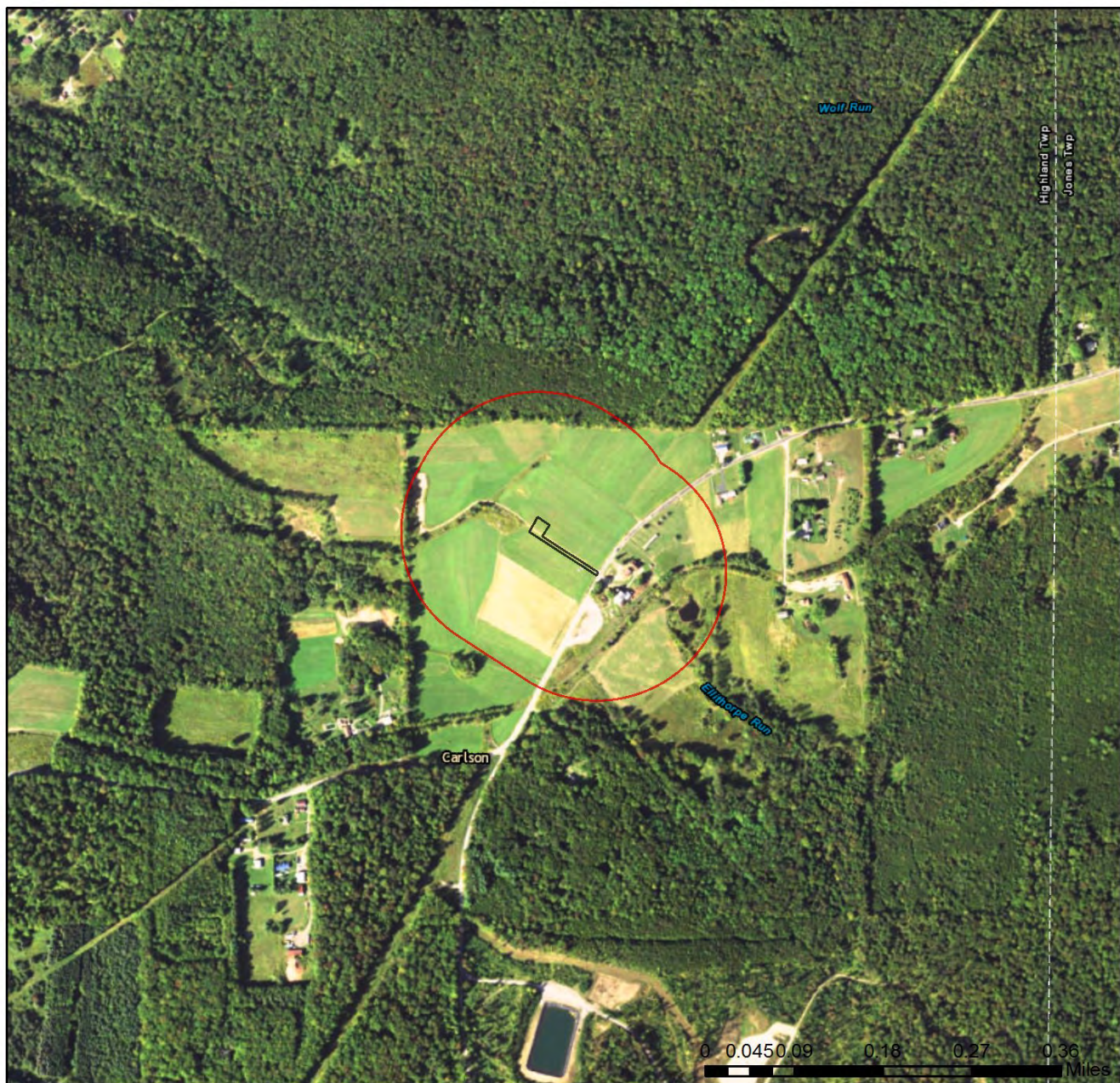
Degrees Minutes Seconds: **41° 35' 33.7911" N, 78° 49' 30.3857" W**



2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

Kane Lamont Relo

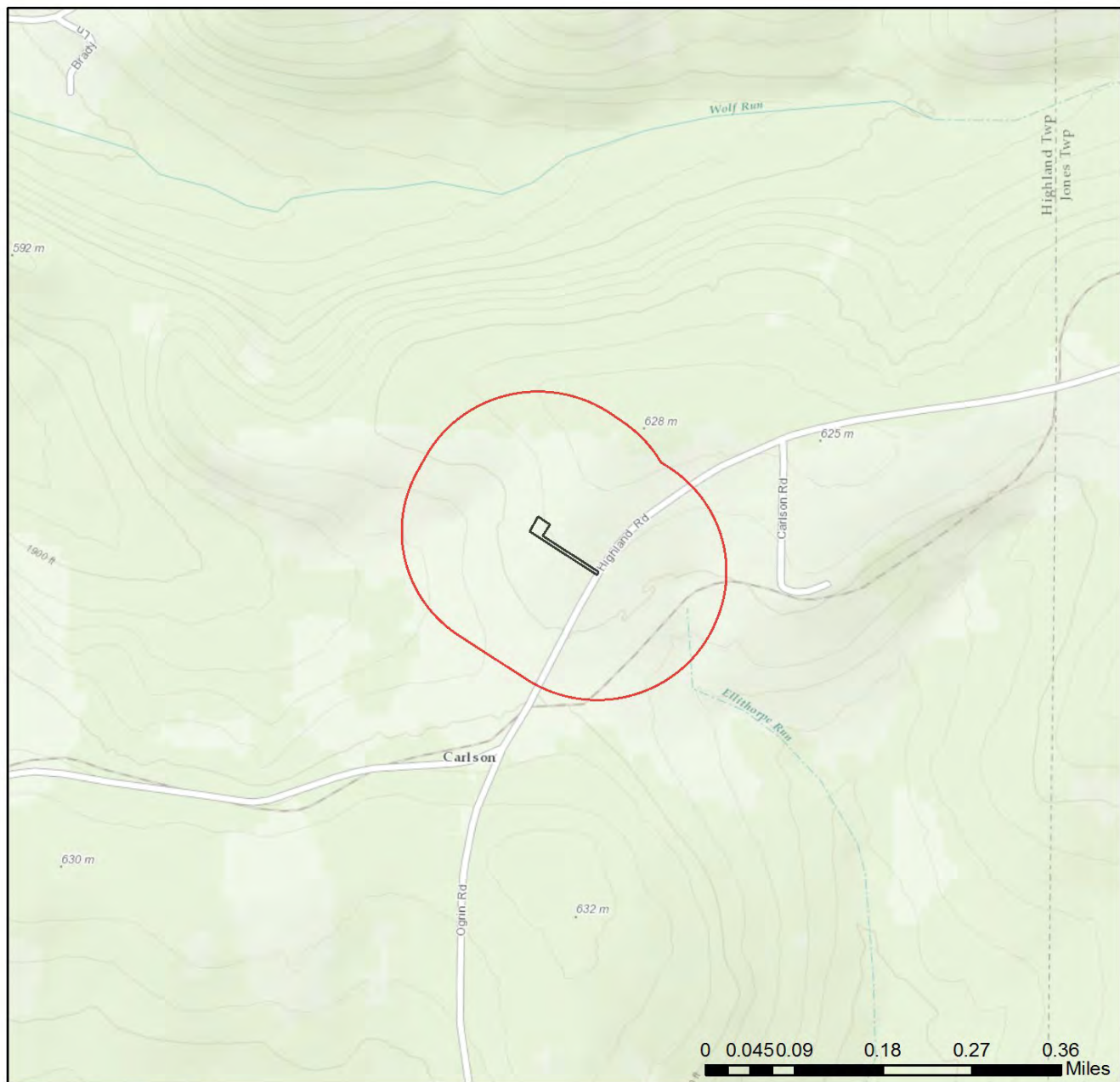




-  Project Boundary
-  Buffered Project Boundary



Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA,

Kane Lamont Relo



-  Project Boundary
-  Buffered Project Boundary

Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community



3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission

RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

PGC Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Scientific Name	Common Name	Current Status
Sensitive Species**		Special Concern Species*

PA Department of Conservation and Natural Resources

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

U.S. Fish and Wildlife Service

RESPONSE:

No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, upload* or email* the following information to the agency(s). Instructions for uploading project materials can be found [here](#). This option provides the applicant with the convenience of sending project materials to a single location accessible to all three state agencies. Alternatively, applicants may email or mail their project materials (see AGENCY CONTACT INFORMATION).

***Note:** U.S.Fish and Wildlife Service requires applicants to mail project materials to the USFWS PA field office (see AGENCY CONTACT INFORMATION). USFWS will not accept project materials submitted electronically (by upload or email).

Check-list of Minimum Materials to be submitted:

____ Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.

____ A map with the project boundary and/or a basic site plan (particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)

In addition to the materials listed above, USFWS REQUIRES the following

____ **SIGNED** copy of a Final Project Environmental Review Receipt

The inclusion of the following information may expedite the review process.

____ Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)

____ Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <https://conservationexplorer.dcnr.pa.gov/content/resources>.

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552
Harrisburg, PA 17105-8552
Email: RA-HeritageReview@pa.gov
Fax: (717) 772-0271

PA Fish and Boat Commission

Division of Environmental Services
450 Robinson Lane, Bellefonte, PA 16823
Email: RA-FBPACENOTIFY@pa.gov

U.S. Fish and Wildlife Service

Pennsylvania Field Office
Endangered Species Section
110 Radnor Rd; Suite 101
State College, PA 16801
NO Faxes Please

PA Game Commission

Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA 17110-9797
Email: RA-PGC_PNDI@pa.gov
NO Faxes Please

7. PROJECT CONTACT INFORMATION

Name: _____
Company/Business Name: _____
Address: _____
City, State, Zip: _____
Phone: (____) _____ Fax: (____) _____
Email: _____

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

applicant/project proponent signature

date

USFWS Critical Habitat

Kane Lamont Relo / Ensite #19752



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United States Department of the Interior



FISH AND WILDLIFE SERVICE
Pennsylvania Field Office
315 South Allen Street, Suite 322
State College, Pennsylvania 16801-4850

September 9, 2013

Chris Baird
EBI Consulting
21 B Street
Burlington, MA 01803

Dear Mr. Baird:

This letter is to inform you that our office will no longer be able to respond to individual cell tower projects, due to an imposed hiring freeze, the inability to back fill vacant positions, and other workload constraints. Therefore, we offer the following general guidance pursuant to the Endangered Species Act of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*), the Migratory Bird Treaty Act (16 U.S.C. 703-712; Ch. 128; July 13, 1918; 40 Stat. 755, as amended), the Bald and Golden Eagle Protection Act (54 Stat. 250, as amended; 16 U.S.C. 668-668d), and the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 *et seq.*) to assist you on future projects.

Federally Listed Species

If the project-specific Pennsylvania Natural Diversity Inventory (PNDI) receipt indicates that no known impacts to federally listed or proposed threatened or endangered species under our jurisdiction are anticipated, no further review is required with our agency pursuant to the Endangered Species Act. We ask that you only contact our office for further coordination if a PNDI receipt indicates that further review by our agency is required or you cannot adhere to recommended conservation measures to avoid impacts to listed species.

Assessment of Risks to Migratory Birds Including Eagles

The Service is the principal Federal agency charged with protecting and enhancing populations and habitat of migratory bird species. The Migratory Bird Treaty Act (MBTA) prohibits the taking, killing, possession, transportation, and importation of migratory birds, their eggs, parts, and nests, except when specifically authorized by the Department of the Interior. While the MBTA has no provision for authorizing incidental take, the Service recognizes that some birds may be killed even if all reasonable measures to avoid take are implemented.

In addition to protection under the MBTA, bald and golden eagles are protected under the Bald and Golden Eagle Protection Act, which prohibits killing; selling; or otherwise harming eagles,

their nests, or their eggs. The Eagle Act also includes provisions not found in the MBTA, including the protection of unoccupied nests and a definition of take that prohibits disturbing eagles. The Service recommends that applicants carefully evaluate their proposed project in light of the *National Bald Eagle Management Guidelines* to determine whether or not eagles might be disturbed as a direct or indirect result of the project. These guidelines as well as additional eagle information are available at <http://www.fws.gov/northeast/ecologicalservices/eagle.html>. Additionally, although the bald eagle is not listed as endangered or threatened at the federal level, the bald eagle is a Pennsylvania State-listed threatened species and therefore, it is protected under the Game and Wildlife Code. Therefore, the Service recommends that you contact the Pennsylvania Game Commission Headquarters Office at 717-787-4250 prior to commencement of work.

The potential exists for avian mortality from habitat destruction and alteration within the project boundaries associated with both the conversion of habitat to man-made structures and bird collisions with the new tower structures. If you haven't already done so, please review the *Service Interim Guidelines For Recommendations On Communications Tower Siting, Construction, Operation, and Decommissioning* available at <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html> for our suggestions to minimize impacts to migratory birds. In addition, please review the enclosed information for some additional recommendations compiled by our office for avoiding and minimizing impacts to migratory birds within and around tower sites.

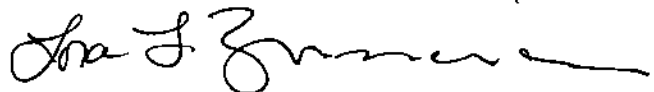
If you follow these recommended conservation measures to the extent practicable, no further review is required with our agency under the MBTA.

Aquatic Resources

If streams and wetlands will be affected by the proposed project, you should be aware that work in these waters requires permits from the Pennsylvania Department of Environmental Protection and/or the Army Corps of Engineers. We suggest you contact the DEP and the Corps for information about permit requirements. Please be advised that the Service generally recommends that the Corps and DEP not grant permits to destroy streams or wetlands. For example, siting and construction of access roads and stormwater detention facilities should avoid impacts to streams and wetlands.

Please contact Jennifer Siani of this office at (814) 234-4090 if you have any questions or require further assistance.

Sincerely,



Lora L. Zimmerman
Field Office Supervisor

Enclosure

SUPPORTING DOCUMENTATION

ZONE A

South Branch
Tionesta Creek

66

TOWNSHIP
ROUTE 328

Project Site

MA0751

MA0750

MA0749

MA0748

GARRIS RD

MA0746

MA0747

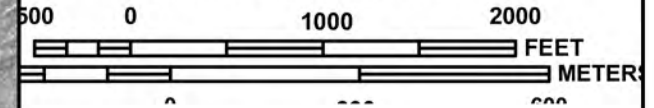
TOWNSHIP
ROUTE 308

Township of Highland
421609

OLD RAILROAD GRADE



MAP SCALE 1" = 1000'



NFP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0130D

FIRM

FLOOD INSURANCE RATE MAP
ELK COUNTY,
PENNSYLVANIA
ALL JURISDICTIONS

PANEL 130 OF 720

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
HIGHLAND, TOWNSHIP OF	421609	0130	D
JONES, TOWNSHIP OF	421612	0130	D

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.



MAP NUMBER
42047C0130D
EFFECTIVE DATE
JANUARY 18, 2012

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

LEGEND



SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

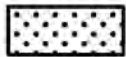
The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.



FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.



OTHER FLOOD AREAS

- ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

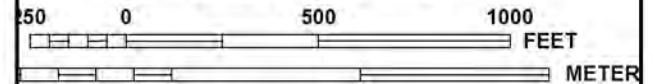


OTHER AREAS

- ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.



MAP SCALE 1" = 500'



ZONE D

Areas in which flood hazards are undetermined, but possible.



COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS



OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- Base Flood Elevation line and value; elevation in feet*
(EL 987)
- Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988

- Cross section line
- Transect line
- Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere

- 1000-meter Universal Transverse Mercator grid values, zone 10N
- 5000-foot grid ticks: California State Plane coordinate system, zone 11 (FIPSZONE 0402), Lambert Conformal Conic projection
- Bench mark (see explanation in Notes to Users section of this FIRM panel)
- River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE
FLOOD INSURANCE RATE MAP
May 4, 2009

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



U.S. Fish and Wildlife Service

National Wetlands Inventory

Kane Lamont Relo
/ Ensite #19752

Aug 5, 2014



Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:



United States
Department of
Agriculture

NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for Cameron and Elk Counties, Pennsylvania

Kane Lamont Relo / Ensite #19752



August 5, 2014

Custom Soil Resource Report
Soil Map



Map Scale: 1:1,500 if printed on A landscape (11" x 8.5") sheet.

0 20 40 80 120 Meters

0 50 100 200 300 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

Map Unit Legend

Cameron and Elk Counties, Pennsylvania (PA607)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CaB	Cavode silt loam, 3 to 8 percent slopes	0.8	52.3%
CaC	Cavode silt loam, 8 to 15 percent slopes	0.7	44.4%
WaB	Wharton silt loam, 3 to 8 percent slopes	0.1	3.3%
Totals for Area of Interest		1.6	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments

on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Cameron and Elk Counties, Pennsylvania

CaB—Cavode silt loam, 3 to 8 percent slopes

Map Unit Setting

Elevation: 1,000 to 1,700 feet
Mean annual precipitation: 36 to 46 inches
Mean annual air temperature: 41 to 62 degrees F
Frost-free period: 130 to 160 days

Map Unit Composition

Cavode and similar soils: 85 percent
Minor components: 15 percent

Description of Cavode

Setting

Landform: Hills
Landform position (two-dimensional): Backslope, summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear, concave
Across-slope shape: Concave
Parent material: Acid clayey residuum weathered from clayey shale

Typical profile

Ap - 0 to 10 inches: silt loam
Btg - 10 to 47 inches: silty clay loam
BCg - 47 to 57 inches: channery silt loam
R - 57 to 61 inches: bedrock

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: 40 to 90 inches to lithic bedrock
Natural drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 6 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Moderate (about 7.4 inches)

Interpretive groups

Farmland classification: Farmland of statewide importance
Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: C/D

Minor Components

Gilpin

Percent of map unit: 10 percent
Landform: Hills
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Convex, linear

Brinkerton

Percent of map unit: 5 percent

Landform: Hills, draws

Landform position (two-dimensional): Toeslope, footslope

Landform position (three-dimensional): Base slope, head slope

Down-slope shape: Concave, linear

Across-slope shape: Concave, linear

CaC—Cavode silt loam, 8 to 15 percent slopes

Map Unit Setting

Elevation: 1,000 to 1,700 feet

Mean annual precipitation: 36 to 46 inches

Mean annual air temperature: 41 to 62 degrees F

Frost-free period: 130 to 160 days

Map Unit Composition

Cavode and similar soils: 85 percent

Minor components: 15 percent

Description of Cavode

Setting

Landform: Hillslopes

Landform position (two-dimensional): Backslope, summit

Landform position (three-dimensional): Side slope

Down-slope shape: Concave, linear

Across-slope shape: Concave

Parent material: Acid clayey residuum weathered from clayey shale

Typical profile

Ap - 0 to 10 inches: silt loam

Btg - 10 to 47 inches: silty clay loam

BCg - 47 to 57 inches: channery silt loam

R - 57 to 61 inches: bedrock

Properties and qualities

Slope: 8 to 15 percent

Depth to restrictive feature: 40 to 90 inches to lithic bedrock

Natural drainage class: Somewhat poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: About 6 to 18 inches

Frequency of flooding: None

Frequency of ponding: None

Available water storage in profile: Moderate (about 7.4 inches)

Interpretive groups

Farmland classification: Farmland of statewide importance

Land capability classification (irrigated): None specified

Custom Soil Resource Report

Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C/D

Minor Components

Gilpin

Percent of map unit: 10 percent
Landform: Hillslopes
Landform position (two-dimensional): Summit, backslope, shoulder
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Linear, convex

Brinkerton

Percent of map unit: 5 percent
Landform: Draws, hills
Landform position (two-dimensional): Toeslope, footslope
Landform position (three-dimensional): Head slope, base slope
Down-slope shape: Linear, concave
Across-slope shape: Linear, concave

WaB—Wharton silt loam, 3 to 8 percent slopes

Map Unit Setting

Elevation: 300 to 2,400 feet
Mean annual precipitation: 35 to 50 inches
Mean annual air temperature: 46 to 57 degrees F
Frost-free period: 120 to 214 days

Map Unit Composition

Wharton and similar soils: 80 percent
Minor components: 20 percent

Description of Wharton

Setting

Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Interfluve, side slope, head slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Fine-loamy residuum weathered from shale and siltstone

Typical profile

H1 - 0 to 7 inches: silt loam
H2 - 7 to 44 inches: channery silty clay loam
H3 - 44 to 60 inches: very channery silty clay loam
H4 - 60 to 70 inches: bedrock

Properties and qualities

Slope: 3 to 8 percent

Custom Soil Resource Report

Depth to restrictive feature: 40 to 70 inches to lithic bedrock

Natural drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high
(0.01 to 0.60 in/hr)

Depth to water table: About 18 to 36 inches

Frequency of flooding: None

Frequency of ponding: None

Available water storage in profile: Moderate (about 8.0 inches)

Interpretive groups

Farmland classification: All areas are prime farmland

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2e

Hydrologic Soil Group: C/D

Minor Components

Cavode

Percent of map unit: 8 percent

Hartleton

Percent of map unit: 5 percent

Landform: — error in exists on —

Landform position (two-dimensional): Shoulder, backslope

Landform position (three-dimensional): Side slope

Down-slope shape: Linear, concave

Across-slope shape: Linear, concave

Buchanan

Percent of map unit: 5 percent

Brinkerton

Percent of map unit: 2 percent

Landform: Sloughs

Down-slope shape: Concave

Across-slope shape: Concave

QUALIFICATIONS

SUMMARY OF EXPERIENCE

Mr. Maguire received his BS in Wildlife from Humboldt State University with an emphasis on waterfowl and shorebird ecology/management. He has worked for Point Reyes Bird observatory and the Hoopa Valley Indian Reservation where he was responsible for conducting avian nests surveys, capturing, and banding protected avian species as well as conducting vegetation surveys. He is a certified Professional Wetland Scientist (PWS) who has spent the last 15 years consulting on a variety of wetland and upland communities within the Pacific Northwest and U.S. southeast. He has acquired permits from a variety of State and Federal agencies including environmental resource permits, Coastal Construction Control Line permits, Joint Coastal Permits, Section 10 permits, Section 401 and 404 permits, and Incidental Take Permits (ITP).

RELEVANT PROJECT EXPERIENCE

Mr. Maguire has worked closely with the U.S. Army Corps of Engineers (USACE) and U.S. Fish and Wildlife Service to assess project impacts, develop project alternatives, and develop mitigation measures under National Environmental Protection Act (NEPA) guidelines. He has also worked with the USACE to conduct feasibility studies and prepare project alternatives for Section 1135 Ecosystem Restoration projects. He has worked with the U.S. Fish and Wildlife Service (USFWS) and National Marine Fisheries Service (NMFS) to prepare Section 7 Consultation documents for nesting marine turtle's, California tiger salamander, California red-legged frog, Alameda whipsnake, West Indian Manatee, Shortnose Sturgeon, Anastasia Beach Mouse, Piping Plover, Eastern Indigo Snake, Atlantic Salt Marsh Snake, Gopher Tortoise, Wood Stork, Least Tern, California Clapper Rail, and Salt Marsh Harvest Mouse.

EDUCATION

Bachelors of Science, Wildlife Biology, December 1999

Humboldt State University, Arcata, CA

Associate of Science, Biology, December 1997

Canada College, Redwood City, CA

PROFESSIONAL AFFILIATIONS

Society of Wetland Scientists

Association of Environmental Professionals

California Native Plant Society

PROFESSIONAL REGISTRATIONS

Professional Wetland Scientist (PWS) – No. 1900

PUBLICATIONS

Black et al. 2003. Site Selection and Foraging Behavior of Aleutian Canada Geese in a Newly Colonized Spring Staging Area. Proceedings of the 2003 International Canada Goose Symposium.

Maguire, A. 2000. Whimbrel Attacked by a Peregrine Falcon and Killed by a Common Raven in Northern California. Wilson Bulletin 112(3), 2000, pp. 429-430.

SPECIALIZED TRAINING COURSES

Regional Supplemental Wetland Delineation Training, September 2014 (Richard Chinn Environmental Training, Inc.)

Biology and Conservation of the Alameda Striped Racer, May 2014 (Alameda County Resource Conservation District)

Managing Habitats for the California Red-legged Frog, November 2013 (Elkhorn Slough National Estuarine Research Reserve)

California Tiger Salamander Training, April 2013(Elkhorn Slough National Estuarine Research Reserve)
California Red Legged Frog Survey Training, April 2012 (Elkhorn Slough National Estuarine Research Reserve)
Taxonomy Workshop – Composites, August 2011 (Regional Park Botanical Garden)
Advanced CEQA Workshop, February 2011 (Association of Environmental Professionals)
Planning, Site Selection, and Hydrology Models for Constructed Wetlands, February 2008 (Wetland Training Institute, Inc.)
Florida Wetlands, November 2007 (Continuing Legal Education, International)
Advanced Jurisdictional Hydrology, October 2006 (Wetland Training Institute, Inc.)
Wetland Creation and Restoration, June 2005 (Ohio State University, William J. Mitsch and Roy R. "Robin" Lewis)
Hydric Soils and Whole Landscape Hydrology, October 2004 (University of Florida, Wade Hurt)
USACE Wetland Delineation and Management Training Program, September 2002 (Richard Chinn Environmental Training, Inc.)
Prescription Burn Certification Course, October 2001 (U.S. Department of Forestry)

SUMMARY OF EXPERIENCE

Mr. Stayer received his BS in the Management of Information Systems from the University of Texas at Arlington with an emphasis in database management. Mr. Stayer also received a MS in Wildlife Ecology from Texas State University with an emphasis on avian species, specifically a Master's Thesis on raptor species. He has spent 5 years working for the U.S. Fish and Wildlife Service (USFWS) responsible for conducting numerous wildlife and habitat assessments, understanding and implementing all sections of the Endangered Species Act (ESA), responsible for reviewing National Environmental Policy Act (NEPA) documents, writing and reviewing grant proposals, writing and reviewing biological reports, and publication of numerous documents related to the Endangered Species Act.

RELEVANT PROJECT EXPERIENCE

Mr. Stayer has worked with EBI Consulting as a Biologist II since January of 2014. Prior to working with EBI, Mr. Stayer worked as a wildlife biologist for the USFWS Carlsbad Field Office. Mr. Stayer worked closely with the U.S. Navy and National Park Service to establish a habitat monitoring program for the Federally threatened island night lizard. He has also worked with numerous water districts to assess project impacts, develop project alternatives, and propose mitigation for numerous Federally listed threatened and endangered species in compliance with the ESA and NEPA. As a USFWS fish and wildlife biologist Jason has conducted numerous species and habitat assessments and developed ESA Section 4 documents for the Coachella Valley Fringe-toed Lizard, Island Night Lizard, Coastal California Gnatcatcher, Santa Ana Sucker, and Southwestern Willow Flycatcher. Jason has also drafted Section 7 Consultation documents for 30 different state and federally listed species.

EDUCATION

Bachelor of Science, Management of Information Systems, December 2002
University of Texas at Arlington, Arlington, TX

Master of Science, Wildlife Ecology, August 2008
Texas State University, San Marcos, TX

PROFESSIONAL REGISTRATIONS

Seabird Assessment Oil Spill Response, March 2009
Carlsbad Fish and Wildlife Office, Carlsbad, CA

Listing and Candidate Assessment (Section 4 - ESA), March 2010
Lakewood Fish and Wildlife Office, Lakewood, CO

Habitat Conservation Plan Development (Section 10 - ESA), March 2011
Carlsbad Fish and Wildlife Office, Carlsbad, CA

Recovery Planning Implementation (Section 4 - ESA), April 2011
National Convention Training Center, Shepherdstown, WV

Interagency Consultation (Section 7 - ESA), April 2012

Carlsbad Fish and Wildlife Office, Carlsbad, CA

Critical Writing and Critical Thinking, June 2012

National Convention Training Center, Shepherdstown, WV

24 hour HAZWOPER Certification, March 2013

Carlsbad Fish and Wildlife Office, Carlsbad, CA

PUBLICATIONS

USFWS Publication	5-year review on the Coachella Valley fringe-toed lizard (August 10, 2010)
Federal Register	Proposed revised critical habitat for the southwestern willow flycatcher – assist Arizona Fish and Wildlife Office (Carlsbad Field Office lead) (August 15, 2011)
Federal Register	90-day finding on the coastal California gnatcatcher (October 26, 2011)
USFWS Publication	5-year review on the island night lizard (October 10, 2012)
Federal Register	Final revised critical habitat for the southwestern willow flycatcher – assist Arizona Fish and Wildlife Office (Carlsbad Field Office lead) (January 03, 2013)
Federal Register	Island night lizard proposed delisting rule (February 04, 2013)
Federal Register	Draft post-delisting monitoring plan for the night lizard (February 04, 2013)
Federal Register	Island night lizard final delisting rule (April, 01 2014)
Federal Register	Final post-delisting monitoring plan for the night lizard (April, 01 2014)

Adam Crosbie

From: Microsoft Outlook
To: RA-PGC_PNDI@pa.gov
Sent: Tuesday, July 26, 2016 8:00 AM
Subject: Relayed: 6114005635 - Kane Lamont Relo, Kane, PA

Delivery to these recipients or groups is complete, but no delivery notification was sent by the destination server:

RA-PGC_PNDI@pa.gov (RA-PGC_PNDI@pa.gov)

Subject: 6114005635 - Kane Lamont Relo, Kane, PA

August 9, 2014

Mr. Douglas McLearen
Pennsylvania Historical and Museum Commission
Commonwealth Keystone Building, 2nd floor
400 North Street
Harrisburg, PA 17120
Phone: 717-783-9926

Subject: Submission Packet, FCC Form 620, for proposed New Tower Project
3218 Highland Road, Kane, Elk County, PA 16735
19752 / Kane Lemont Relo
EBI Project Number: 61145635

Dear Mr. McLearen:

In accordance with the Federal Communication Commission (FCC) National Environmental Policy Act (NEPA) rules and Section 106 of the National Historic Preservation Act (NHPA), the above-referenced telecommunications project is being evaluated by EBI for its potential effects to districts, sites, buildings, structures, or objects significant in American history, architecture, archeology, engineering, or culture that are listed, or potentially eligible for listing in the National Register of Historic Places (NRHP). Based on EBI's review of the characteristics and location of the proposed project, the project does not meet the exclusions stated in the "Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission," dated September 2004 ("Nationwide Agreement"); therefore, the project is required to undergo Section 106 review with the State Historic Preservation Office.

In accordance with the Nationwide Agreement, please find the attached Submission Packet, FCC Form 620, which presents the details on the proposed project as well as efforts that have been taken to identify, assess, and make determinations of effect on the impacts of the proposed project on Historic Properties.

We would appreciate your review of the data for the proposed project presented above and shown on the attached form and attachments. On behalf of Cellco Partnership and its controlled affiliates doing business as Verizon Wireless (Verizon Wireless), I would appreciate your comments on this proposed telecommunications installation in a letter directed to the address noted above. Please do not hesitate to contact us if you have any questions or concerns on the proposed project or the information contained in this Submission Packet.

Sincerely,


Makenzie Diehl
Architectural Historian


Jennifer Davis
Senior Architectural Historian

Notification Date: **7AM EST 08/11/2014****New Tower ("NT") Submission Packet**

See instructions for

File Number: **0006417394**

public burden estimates

General Information

1) (Select only one) (NE) NE – New UA – Update of Application WD – Withdrawal of Application	
2) If this application is for an Update or Withdrawal, enter the file number of the pending application currently on file.	File Number:

Applicant Information

3) FCC Registration Number (FRN): 0012845343
4) Name: Verizon Wireless

Contact Name

5) First Name: Robin	6) MI:	7) Last Name: Haeffner	8) Suffix:
9) Title: VZW HQ-NEPA Regulatory Compliance			

Contact Information

10) P.O. Box:	And /Or	11) Street Address: 6 Campus Circle, Suite 500	
12) City: Westlake		13) State: TX	14) Zip Code: 76272
15) Telephone Number: (501)529-5377		16) Fax Number:	
17) E-mail Address: npa@verizonwireless.com			

Consultant Information

18) FCC Registration Number (FRN): 0016385759
19) Name: EnviroBusiness, Inc. d/b/a EBI Consulting (EBI #61145635)

Principal Investigator

20) First Name: James	21) MI:	22) Last Name: Dietterich	23) Suffix:
24) Title: Archaeologist			

Principal Investigator Contact Information

25) P.O. Box:	And /Or	26) Street Address: 6876 Susquehanna Trail South	
27) City: York		28) State: PA	29) Zip Code: 17403
30) Telephone Number: (203)309-8285		31) Fax Number:	
32) E-mail Address: jdavis@ebiconsulting.com			

Professional Qualification

33) Does the Principal Investigator satisfy the Secretary of the Interior's Professional Qualification Standards?	(<input checked="" type="checkbox"/>) <u>Y</u> es () <u>N</u> o
34) Areas of Professional Qualification: (<input checked="" type="checkbox"/>) Archaeologist () Architectural Historian () Historian () Architect () Other (Specify) _____	

Additional Staff

35) Are there other staff involved who meet the Professional Qualification Standards of the Secretary of the Interior?	(<input checked="" type="checkbox"/>) <u>Y</u> es () <u>N</u> o
--	--

If "YES," complete the following:

36) First Name: Makenzie	37) MI:	38) Last Name: Diehl	39) Suffix:
40) Title:			
41) Areas of Professional Qualification: () Archaeologist (<input checked="" type="checkbox"/>) Architectural Historian () Historian () Architect () Other (Specify) _____			

36) First Name: Jennifer	37) MI:	38) Last Name: Davis	39) Suffix:
40) Title:			
41) Areas of Professional Qualification: () Archaeologist (<input checked="" type="checkbox"/>) Architectural Historian () Historian () Architect () Other (Specify) _____			

36) First Name: Karen	37) MI:	38) Last Name: Hutchins	39) Suffix: PhD
40) Title:			
41) Areas of Professional Qualification: (<input checked="" type="checkbox"/>) Archaeologist () Architectural Historian () Historian () Architect () Other (Specify) _____			

Site Information

Tower Construction Notification System

1) TCNS Notification Number: **112574**

Site Information

2) Positive Train Control Filing Subject to Expedited Treatment Under Program Comment: () Yes (**X**) No

3) Site Name: **Kane Lamont Relo**

4) Site Address: **3218 Highland Road**

5) Detailed Description of Project:

EBI 61145635 / EnSite 19752 Proposed construction of a new telecommunications self-support lattice tower and compound

6) City: **Kane**

7) State: **PA**

8) Zip Code: **16735**

9) County/Borough/Parish: **ELK**

10) Nearest Crossroads: **Highland Road and Ogrin Road**

11) **NAD 83** Latitude (DD-MM-SS.S): **41-35-34.6** (**X**) N or () S

12) **NAD 83** Longitude (DD-MM-SS.S): **078-49-29.9** () E or (**X**) W

Tower Information

13) Tower height above ground level (include top-mounted attachments such as lightning rods): **94.2** () Feet (**X**) Meters

14) Tower Type (Select One):

() Guyed lattice tower

(**X**) Self-supporting lattice

() Monopole

() Other (Describe):

Project Status

15) Current Project Status (Select One):

(**X**) Construction has not yet commenced

() Construction has commenced, but is not completed

Construction commenced on: _____

() Construction has been completed

Construction commenced on: _____

Construction completed on: _____

Determination of Effect

14) Direct Effects (Select One):

- (☒) No Historic Properties in Area of Potential Effects (APE)
- (☐) No Effect on Historic Properties in APE
- (☐) No Adverse Effect on Historic Properties in APE
- (☐) Adverse Effect on one or more Historic Properties in APE

15) Visual Effects (Select One):

- (☒) No Historic Properties in Area of Potential Effects (APE)
- (☐) No Effect on Historic Properties in APE
- (☐) No Adverse Effect on Historic Properties in APE
- (☐) Adverse Effect on one or more Historic Properties in APE

Tribal/NHO Involvement

1) Have Indian Tribes or Native Hawaiian Organizations (NHOs) been identified that may attach religious and cultural significance to historic properties which may be affected by the undertaking within the APEs for direct and visual effects?		(<input checked="" type="checkbox"/>) <u>Y</u> es () <u>N</u> o
2a) Tribes/NHOs contacted through TCNS Notification Number: <u>112574</u>		Number of Tribes/NHOs: <u>13</u>
2b) Tribes/NHOs contacted through an alternate system:		Number of Tribes/NHOs: <u>0</u>

Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Absentee-Shawnee Tribe of Indians of Oklahoma

Contact Name

5) First Name: Joseph	6) MI: H	7) Last Name: Blanchard	8) Suffix:
9) Title: THPO			

Dates & Response

10) Date Contacted <u>06/12/2014</u>	11) Date Replied _____
(<input checked="" type="checkbox"/>) No Reply	
() Replied/No Interest	
() Replied/Have Interest	
() Replied/Other	

Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Chippewa Cree Tribe of the Rocky Boy's Reservation

Contact Name

5) First Name: Alvin	6) MI:	7) Last Name: Windy Boy	8) Suffix:
9) Title: THPO			

Dates & Response

10) Date Contacted <u>06/12/2014</u>	11) Date Replied _____
(<input checked="" type="checkbox"/>) No Reply	
() Replied/No Interest	
() Replied/Have Interest	
() Replied/Other	

Tribal/NHO Involvement

1) Have Indian Tribes or Native Hawaiian Organizations (NHOs) been identified that may attach religious and cultural significance to historic properties which may be affected by the undertaking within the APEs for direct and visual effects?		(<input checked="" type="checkbox"/>) <u>Y</u> es () <u>N</u> o
2a) Tribes/NHOs contacted through TCNS Notification Number: <u>112574</u>		Number of Tribes/NHOs: <u>13</u>
2b) Tribes/NHOs contacted through an alternate system:		Number of Tribes/NHOs: <u>0</u>

Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Delaware Nation

Contact Name

5) First Name: Tamara	6) MI:	7) Last Name: Francis-Fourkiller	8) Suffix:
9) Title: Cultural Preservation Director			

Dates & Response

10) Date Contacted <u>06/12/2014</u>	11) Date Replied _____
(<input checked="" type="checkbox"/>) No Reply	
() Replied/No Interest	
() Replied/Have Interest	
() Replied/Other	

Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Delaware Tribe of Indians of Oklahoma

Contact Name

5) First Name: Dr. Brice	6) MI: M	7) Last Name: Obermeyer	8) Suffix:
9) Title:			

Dates & Response

10) Date Contacted <u>06/11/2014</u>	11) Date Replied _____
(<input checked="" type="checkbox"/>) No Reply	
() Replied/No Interest	
() Replied/Have Interest	
() Replied/Other	

Tribal/NHO Involvement

1) Have Indian Tribes or Native Hawaiian Organizations (NHOs) been identified that may attach religious and cultural significance to historic properties which may be affected by the undertaking within the APEs for direct and visual effects?		(<input checked="" type="checkbox"/>) <u>Y</u> es () <u>N</u> o
2a) Tribes/NHOs contacted through TCNS Notification Number: <u>112574</u>		Number of Tribes/NHOs: <u>13</u>
2b) Tribes/NHOs contacted through an alternate system:		Number of Tribes/NHOs: <u>0</u>

Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Eastern Shawnee Tribe of Oklahoma

Contact Name

5) First Name: Rebecca	6) MI:	7) Last Name: Hawkins	8) Suffix:
9) Title: Archaeologist			

Dates & Response

10) Date Contacted <u>06/11/2014</u>	11) Date Replied _____
(<input checked="" type="checkbox"/>) No Reply	
() Replied/No Interest	
() Replied/Have Interest	
() Replied/Other	

Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Keweenaw Bay Indian Community

Contact Name

5) First Name: Juliet	6) MI: K	7) Last Name: Goyen	8) Suffix:
9) Title: THPO/NAGPRA Supervisor			

Dates & Response

10) Date Contacted <u>06/11/2014</u>	11) Date Replied <u>06/11/2014</u>
() No Reply	
() Replied/No Interest	
() Replied/Have Interest	
(<input checked="" type="checkbox"/>) Replied/Other	

Tribal/NHO Involvement

1) Have Indian Tribes or Native Hawaiian Organizations (NHOs) been identified that may attach religious and cultural significance to historic properties which may be affected by the undertaking within the APEs for direct and visual effects?		(<input checked="" type="checkbox"/>) <u>Yes</u> (<input type="checkbox"/>) <u>No</u>
2a) Tribes/NHOs contacted through TCNS Notification Number: <u>112574</u>		Number of Tribes/NHOs: <u>13</u>
2b) Tribes/NHOs contacted through an alternate system:		Number of Tribes/NHOs: <u>0</u>

Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Oneida Nation of Wisconsin

Contact Name

5) First Name: Corina	6) MI:	7) Last Name: Mrozinski	8) Suffix:
9) Title: THPO			

Dates & Response

10) Date Contacted <u>06/12/2014</u>	11) Date Replied _____
(<input checked="" type="checkbox"/>) No Reply	
(<input type="checkbox"/>) Replied/No Interest	
(<input type="checkbox"/>) Replied/Have Interest	
(<input type="checkbox"/>) Replied/Other	

Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Seneca Nation of Indians

Contact Name

5) First Name: Melissa	6) MI:	7) Last Name: Bach	8) Suffix:
9) Title: Tribal Historic Preservation Officer			

Dates & Response

10) Date Contacted <u>06/12/2014</u>	11) Date Replied _____
(<input checked="" type="checkbox"/>) No Reply	
(<input type="checkbox"/>) Replied/No Interest	
(<input type="checkbox"/>) Replied/Have Interest	
(<input type="checkbox"/>) Replied/Other	

Tribal/NHO Involvement

1) Have Indian Tribes or Native Hawaiian Organizations (NHOs) been identified that may attach religious and cultural significance to historic properties which may be affected by the undertaking within the APEs for direct and visual effects?	(<input checked="" type="checkbox"/>) <u>Yes</u> () <u>No</u>
2a) Tribes/NHOs contacted through TCNS Notification Number: <u>112574</u> Number of Tribes/NHOs: <u>13</u>	
2b) Tribes/NHOs contacted through an alternate system: Number of Tribes/NHOs: <u>0</u>	

Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Seneca-Cayuga Tribe of Oklahoma

Contact Name

5) First Name: Paul	6) MI:	7) Last Name: Barton	8) Suffix:
9) Title: THPO/NAGPRA Rep.			

Dates & Response

10) Date Contacted <u>06/12/2014</u>	11) Date Replied _____
(<input checked="" type="checkbox"/>) No Reply	
() Replied/No Interest	
() Replied/Have Interest	
() Replied/Other	

Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Shawnee Tribe

Contact Name

5) First Name: Kim	6) MI:	7) Last Name: Jumper	8) Suffix:
9) Title: THPO			

Dates & Response

10) Date Contacted <u>06/12/2014</u>	11) Date Replied <u>06/13/2014</u>
() No Reply	
() Replied/No Interest	
() Replied/Have Interest	
(<input checked="" type="checkbox"/>) Replied/Other	

Tribal/NHO Involvement

1) Have Indian Tribes or Native Hawaiian Organizations (NHOs) been identified that may attach religious and cultural significance to historic properties which may be affected by the undertaking within the APEs for direct and visual effects?		(<input checked="" type="checkbox"/>) <u>Y</u> es () <u>N</u> o
2a) Tribes/NHOs contacted through TCNS Notification Number: <u>112574</u>		Number of Tribes/NHOs: <u>13</u>
2b) Tribes/NHOs contacted through an alternate system:		Number of Tribes/NHOs: <u>0</u>

Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Tonawanda Band of Seneca

Contact Name

5) First Name: Roger	6) MI:	7) Last Name: Hill	8) Suffix:
9) Title: Chief			

Dates & Response

10) Date Contacted <u>06/12/2014</u>	11) Date Replied _____
(<input checked="" type="checkbox"/>) No Reply	
() Replied/No Interest	
() Replied/Have Interest	
() Replied/Other	

Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Tuscarora Nation

Contact Name

5) First Name: Leo	6) MI: R	7) Last Name: Henry	8) Suffix:
9) Title: Chief			

Dates & Response

10) Date Contacted <u>06/12/2014</u>	11) Date Replied _____
(<input checked="" type="checkbox"/>) No Reply	
() Replied/No Interest	
() Replied/Have Interest	
() Replied/Other	

Tribal/NHO Involvement

1) Have Indian Tribes or Native Hawaiian Organizations (NHOs) been identified that may attach religious and cultural significance to historic properties which may be affected by the undertaking within the APEs for direct and visual effects?		(<input checked="" type="checkbox"/>) <u>Y</u> es () <u>N</u> o
2a) Tribes/NHOs contacted through TCNS Notification Number: <u>112574</u>		Number of Tribes/NHOs: <u>13</u>
2b) Tribes/NHOs contacted through an alternate system:		Number of Tribes/NHOs: <u>0</u>

Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Wyandotte Nation

Contact Name

5) First Name: Sherri	6) MI:	7) Last Name: Clemons	8) Suffix:
9) Title: THPO			

Dates & Response

10) Date Contacted <u>06/11/2014</u>	11) Date Replied _____
(<input checked="" type="checkbox"/>) No Reply	
() Replied/No Interest	
() Replied/Have Interest	
() Replied/Other	

Other Tribes/NHOs Contacted

Tribe/NHO Information

1) FCC Registration Number (FRN):
2) Name:

Contact Name

3) First Name:	4) MI:	5) Last Name:	6) Suffix:
7) Title:			

Contact Information

8) P.O. Box:	And /Or	9) Street Address:	
10) City:		11) State:	12) Zip Code:
13) Telephone Number:		14) Fax Number:	
15) E-mail Address:			
16) Preferred means of communication: () E-mail () Letter () Both			

Dates & Response

17) Date Contacted _____	18) Date Replied _____
() No Reply	
() Replied/No Interest	
() Replied/Have Interest	
() Replied/Other	

Historic Properties

Properties Identified

1) Have any historic properties been identified within the APEs for direct and visual effect?	() <u>Y</u> es (X) <u>N</u> o
2) Has the identification process located archaeological materials that would be directly affected, or sites that are of cultural or religious significance to Tribes/NHOs?	() <u>Y</u> es (X) <u>N</u> o
3) Are there more than 10 historic properties within the APEs for direct and visual effect? If "Yes", you are required to attach a Cultural Resources Report in lieu of adding the Historic Property below.	() <u>Y</u> es (X) <u>N</u> o

Historic Property

4) Property Name:
5) SHPO Site Number:

Property Address

6) Street Address:		
7) City:	8) State:	9) Zip Code:
10) County/Borough/Parish:		

Status & Eligibility

11) Is this property listed on the National Register? Source: _____	() <u>Y</u> es () <u>N</u> o
12) Is this property eligible for listing on the National Register? Source: _____	() <u>Y</u> es () <u>N</u> o
13) Is this property a National Historic Landmark?	() <u>Y</u> es () <u>N</u> o

14) Direct Effects (Select One): <input type="checkbox"/> No Effect on this Historic Property in APE <input type="checkbox"/> No Adverse Effect on this Historic Property in APE <input type="checkbox"/> Adverse Effect on this Historic Property in APE
15) Visual Effects (Select One): <input type="checkbox"/> No Effect on this Historic Property in APE <input type="checkbox"/> No Adverse Effect on this Historic Property in APE <input type="checkbox"/> Adverse Effect on this Historic Property in APE

Local Government Involvement

Local Government Agency

1) FCC Registration Number (FRN):
2) Name: Highland Township

Contact Name

3) First Name: To Whom	4) MI:	5) Last Name: It May Concern	6) Suffix:
7) Title:			

Contact Information

8) P.O. Box: 505	And /Or	9) Street Address:	
10) City: James City		11) State: PA	12) Zip Code: 16734
13) Telephone Number: (814)837-8762		14) Fax Number:	
15) E-mail Address:			
16) Preferred means of communication: () E-mail (X) Letter () Both			

Dates & Response

17) Date Contacted 07/29/2014	18) Date Replied _____
(X) No Reply	
() Replied/No Interest	
() Replied/Have Interest	
() Replied/Other	

Additional Information

19) Information on local government's role or interest (optional):
--

Other Consulting Parties

Other Consulting Parties Contacted

1) Has any other agency been contacted and invited to become a consulting party?	(<input checked="" type="checkbox"/>) <u>Yes</u> () <u>No</u>
--	---

Consulting Party

2) FCC Registration Number (FRN):
3) Name: Elk County Planning Department

Contact Name

4) First Name: Matthew	5) MI:	6) Last Name: Quesenberry	7) Suffix: Sr
8) Title: Planning Director			

Contact Information

9) P.O. Box: 448	And /Or	10) Street Address: 300 Center Street	
11) City: Ridgway		12) State: PA	13) Zip Code: 15853
14) Telephone Number: (814)776-5335		15) Fax Number:	
16) E-mail Address: planning@countyofelkpa.com			
17) Preferred means of communication: () E-mail () Letter (<input checked="" type="checkbox"/>) Both			

Dates & Response

18) Date Contacted 06/30/2014	19) Date Replied _____
(<input checked="" type="checkbox"/>) No Reply	
() Replied/No Interest	
() Replied/Have Interest	
() Replied/Other	

Additional Information

20) Information on other consulting parties' role or interest (optional):

Other Consulting Parties

Other Consulting Parties Contacted

1) Has any other agency been contacted and invited to become a consulting party?	(<input checked="" type="checkbox"/>) <u>Yes</u> () <u>No</u>
--	---

Consulting Party

2) FCC Registration Number (FRN):
3) Name: Elk County Historical Society

Contact Name

4) First Name: To Whom	5) MI:	6) Last Name: It May Concern	7) Suffix:
8) Title:			

Contact Information

9) P.O. Box:	And /Or	10) Street Address: 109 Center Street		
11) City: Ridgway		12) State: PA	13) Zip Code: 15853	
14) Telephone Number: (814)776-1032		15) Fax Number:		
16) E-mail Address: elkcityhistoricalsociety@windstream.net				
17) Preferred means of communication: () E-mail () Letter (<input checked="" type="checkbox"/>) Both				

Dates & Response

18) Date Contacted 06/30/2014	19) Date Replied _____
(<input checked="" type="checkbox"/>) No Reply	
() Replied/No Interest	
() Replied/Have Interest	
() Replied/Other	

Additional Information

20) Information on other consulting parties' role or interest (optional):

Designation of SHPO/THPO

1) Designate the Lead State Historic Preservation Officer (SHPO) or Tribal Historic Preservation Officer (THPO) based on the location of the tower.

SHPO/THPO

Name: **Pennsylvania Historical & Museum Commission Bureau for Historic Preservation**

2) You may also designate up to three additional SHPOs/THPOs if the APEs include multiple states. If the APEs include other countries, enter the name of the National Historic Preservation Agency and any state and provincial Historic Preservation Agency.

SHPO/THPO Name: _____

SHPO/THPO Name: _____

SHPO/THPO Name: _____

Certification

I certify that all representations on this FCC Form 620 Submission Packet and the accompanying attachments are true, correct, and complete.

Party Authorized to Sign

First Name: **Jennifer**

MI: **L**

Last Name: **Davis**

Suffix:

Signature: **Jennifer L Davis**

Date: **08/08/2014**

FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID.

WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 18, Section 1001) AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).

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3060-1039
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Attachment I. Consultant Information

Provide a current copy of the résumé or curriculum vitae for the Principal Investigator and any researcher or other person who contributed to, reviewed, or provided significant input into the research, analysis, writing or conclusions presented in this filing.

The résumé for the Principal Investigator and any researcher or other person who contributed to, reviewed, or provided significant input into the research, analysis, writing or conclusions are presented in this submission.

Applicant's Name: Verizon Wireless
Project Name: Kane Lamont Relo
Project Number: 19752

SUMMARY OF EXPERIENCE

Makenzie Diehl is an Architectural Historian who meets the Secretary of the Interior's Professional Qualifications Standards as specified in 36 CFR Part 61 for both History and Architectural History. She has extensive knowledge of American history, architectural history, and historic preservation gained through experience and education. She has worked in positions at both the local and state level of government, gaining substantial experience in the administration of historic preservation law. Upon completing her undergraduate degree, she worked as a Program Assistant in the City of Pittsburgh's Historic Preservation Office. As a graduate student, she successfully completed an internship with the Pennsylvania Department of Transportation and the Pennsylvania State Historic Preservation Office. She has conducted extensive historical research and prepared documentation for resources in the Mid-Atlantic Region.

RELEVANT PROJECT EXPERIENCE

- Extensive knowledge of National Register criteria, process, and guidelines
- Experience in preparing National Register of Historic Places nominations
- Experience in completing state level recordations
- Experience working with a Certified Local Government (CLG)
- Experience in city planning and command of zoning and building code regulations
- Experience in design review and assessing effects of alterations to historic properties
- Experience working in a State Historic Preservation Office (SHPO)
- Experience in conducting field surveys
- Skilled in conducting extensive archival research and interpreting primary and secondary sources
- Skilled in applying the Secretary of the Interior's Standards
- Trained in Section 106 and Section 4(F)

EDUCATION

2013 M.A. Applied History, Shippensburg University of Pennsylvania, Shippensburg, PA
2010 B.A. History of Art & Architecture, University of Pittsburgh, Pittsburgh, PA
2010 Certificate in Historic Preservation, University of Pittsburgh, Pittsburgh, PA

PROFESSIONAL AFFILIATIONS

National Trust for Historic Preservation

SUMMARY OF EXPERIENCE

Jennifer Davis is an Architectural Historian who meets the Secretary of the Interior's Professional Qualification Standards in Historic Preservation, as specified in 36CFR61, with a Masters Degree in Historic Preservation from Savannah College of Art and Design. Ms. Davis has over nine years of professional experience in historic preservation activities nationwide, with concentrated experience in New York, New Jersey and in Georgia. Ms. Davis' educational background, professional experience and freelance research work have provided a strong foundation for her expertise in consultation on various types of preservation projects.

Prior to joining EBI, Ms. Davis worked in architectural firms in as well as construction firms, gaining practical knowledge of both fields. In 2005, Ms. Davis entered the environmental consulting field working with telecom clients in the New York and New Jersey metropolitan area.

Since joining EBI Consulting in 2010, Ms. Davis' responsibilities have included working with EBI's wireless industry clients to facilitate compliance with the Federal Communications Commission's (FCC) requirements for Section 106 review as part of the National Environmental Policy Act (NEPA) compliance process. She reviews Section 106 surveys and assesses the National Register eligibility of historic properties and evaluates project plans for modifications to historic properties and for their impact on historic resources.

RELEVANT PROJECT EXPERIENCE

Ms. Davis has extensive experience conducting site visits and field evaluations and has prepared hundreds of NEPA Land Use Surveys for telecommunications sites throughout the New York and New Jersey metropolitan area, including identifying historic properties, analysis of possible direct and visual impacts of cellular installations on historic properties, as well as analysis of any other areas of environmental concern. She has also been involved in various projects that have fallen under the New York State Environmental Quality Review (SEQR). Just prior to her environmental experience, Ms. Davis worked for a small design-build architectural firm in Savannah, attending the local historic review board meetings, and was privately contracted by real estate developers and professionals to conduct freelance research and documentation for marketing materials.

EDUCATION

2005 M.F.A. Historic Preservation, Savannah College of Art and Design
1988 B.A. Psychology, minor in Studio Art, Hartwick College

PROFESSIONAL AFFILIATIONS

Member, National Trust for Historic Preservation
Member, Connecticut Trust for Historic Preservation

SUMMARY OF EXPERIENCE

James Dietterich completed his formal education in archaeology and meets the requirements for an archaeologist as outlined by the U.S. Department of the Interior. He is experienced in Section-106 Compliance as it pertains to archaeological Phase I, II, and III excavations. He has four years of experience in the field of cultural resource management and has worked in extensively on both prehistoric and historic sites across the United States, including Phase I, II, and III Projects. He has over six years experience in archaeological research, writing, and archiving. He has extensive experience as an archaeologist, including Phase I identification of sites, registration of sites, and Phase III excavations of prehistoric and historic sites. His focus is field methodology in archaeology, site location analysis, and public outreach in archaeology.

Mr. Dietterich's responsibilities at EBI include helping clients navigate the environmental review process to ensure compliance with Federal Communications Commission (FCC) requirements under the National Environmental Policy Act (NEPA). In his role as Project Archaeologist for EBI Consulting, Mr. Dietterich is responsible for completing archaeological evaluations and mitigations for telecoms projects in the Northeast and Midwestern United States to the standards of relevant State Historic Preservation Offices in the region in accordance with FCC guidelines.

RELEVANT PROJECT EXPERIENCE**EBI Consulting—May 2012 to Present**

- *Project Archaeologist*. See above. Relevant project experience includes telecommunications compliance projects in NY, PA, VT, and ND.

Hartgen Associates—November 2013 to April 2014

- *Archaeological Field Technician*. Relevant project experience includes compliance projects for gas and energy clients.

Public Archaeology Fund (SUNY Binghamton)—October 2013 to April 2014

- *Archaeologist*. Relevant project experience includes compliance projects for public/private cooperative endeavors such as private airports with compliance with the Federal Aviation Administration (FAA).

Panamerican Consultants—July 2013 to April 2014

- *Archaeological Field Technician*. Relevant project experience includes compliance projects for gas and energy clients.

SUNY Buffalo Archaeological Survey—April 2012 to April 2014

- *Archaeologist*. Relevant project experience includes compliance projects for public clients such as the New York State Department of Transportation and private clients in real estate development.

EDUCATION

M.A. Field Archaeology *The University of York* 2012, with Merit

B.A. History and Classics *The State University of New York at Buffalo* 2011, *Cum Laude*

Karen A. Hutchins, PhD

344 Carson St.
Philadelphia, PA 19128
434-284-2899
kahutchins@gmail.com

EDUCATION

Boston University, PhD, Archaeology 2013
Dissertation Title: *In Pursuit of Full Freedom: An Archaeological and Historical Study of the Free African-American Community at Parting Ways, Massachusetts, 1779-1900*
Advisor: Mary C. Beaudry
Vassar College, BA, History (Major) and Anthropology (Minor) 2005

RESEARCH AND TEACHING INTERESTS

Historical Archaeology, Anthropological Archaeology, 18th and 19th-century America, African Diaspora, African-American history, race and racialization, ethnicity, plantation studies, material culture studies, culture contact

TEACHING EXPERIENCE

Great Discoveries in Archaeology, Spring 2008, Fall 2008, Spring 2009, Spring 2010
Teaching Fellow, Department of Archaeology, Boston University
Archaeological Science (included one lab section) Fall 2009
Teaching Fellow, Department of Archaeology, Boston University
Introduction to Archaeology Fall 2007
Teaching Fellow, Department of Archaeology, Boston University

PROFESSIONAL ARCHAEOLOGICAL EXPERIENCE

Principle Investigator—Archaeologist III, EBI Consulting, Inc September 2013–present

- Facilitate the telecom industry's compliance with Section 106 of NHPA in the Mid-Atlantic region
- Review above ground historic properties and archaeological site files in Mid-Atlantic region, conduct field surveys and excavations, and author archaeological reports and complete FCC Forms 620/621 as required by Section 106 of NHPA.

Laboratory and Field Technician, A.D. Marble and Associates 2012–2013

- Conduct field excavations in completion of Phase I, II, and III investigations.
- Process, inventory, catalog, and curate archaeological collections for New Jersey, Pennsylvania, and Delaware.

Project Archaeologist, Monadnock Archaeological Consulting, LLC 2009–2012

- Supervised the field crew during Phase IA, IB, and II investigations, and construction-phase monitoring; analyzed field results and prepared end of field

reports, determination of eligibility reports, and determination of effects reports as required by Section 106 of NHPA.

- Conducted archival research at local and state repositories in New Hampshire, Massachusetts, and Rhode Island.

Lab Supervisor and Assistant Field Supervisor, Digital Archaeological Archive of Comparative Slavery (DAACS) 2006–2010

- Instructed students in field and laboratory skills at an archaeological field school on slave quarter sites in Jamaica, Nevis, and St. Kitts in collaboration with the University of West Indies
- Curated archaeological collections

Archaeological Analyst, Thomas Jefferson Foundation- Monticello 2005–2006

- Analyzed and catalogued artifacts excavated at Monticello and various Jamaican sites into the Digital Archaeological Archive of Comparative Slavery (DAACS)

PUBLICATIONS

Hutchins, Karen A.

- 2013 “Movement and Liminality at the Margins: The Wandering Poor in Eighteenth-Century Massachusetts.” In *Archaeologies of Mobility and Movement*, ed. by Mary C. Beaudry and Travis Parno. New York: Springer.

Hutchins, Karen A. and Mary C. Beaudry

- In Progress “Unblended America: Contesting Race and Place in 19th-century New England.” In *Archaeology, Syncretism, Creolisation*, ed. by Timothy Clack. Oxford: Oxford University Press, manuscript in progress.

TECHNICAL REPORTS

Chan, Alexandra and Karen Hutchins

- 2012 *Phase II Determination of Eligibility, Relocation of Route 110, Berlin, New Hampshire*. Report submitted to New Hampshire Department of Transportation, Concord, New Hampshire.

Chan, Alexandra and Karen Hutchins

- 2011 *Phase IB Intensive Archaeological Investigation, Relocation of Route 110, Berlin, New Hampshire*. Report submitted to New Hampshire Department of Transportation, Concord, New Hampshire.

Karen Hutchins

Chan, Alexandra, Karen Hutchins, and Robert G. Goodby

2010 *Phase IA Archaeological Sensitivity Assessment, Proposed West Buck Street Dam Removal, Pembroke and Allentown, New Hampshire*. Report submitted to New Hampshire Department of Environmental Services, Concord, New Hampshire.

2010 *Phase IA Archaeological Sensitivity Assessment, Proposed Bunker Pond Dam Removal, Epping, New Hampshire*. Report submitted to New Hampshire Department of Environmental Services, Concord, New Hampshire.

SYMPOSIUM ORGANIZATION

Symposium titled: “Black Yankees’ and the African Diaspora: Contemporary Perspectives on the Archaeology of African Americans in New England,” co-chair and co-organizer with Anthony Martin

The Annual Meeting of the Society of Historical Archaeology in Quebec, Canada, January, 2014

PRESENTATIONS

“From What to Choose?: An Analysis of Consumer Choice and Ceramic Availability at Parting Ways, Plymouth, Massachusetts.” Society for Historical Archaeology Annual Conference, Baltimore, Maryland, 2012.

“Coming to New England: The Demographics and Mechanics of the Slave Trade and What That Means for Archaeologists Studying the African Diaspora.” Contemporary and Historical Archaeology in Theory Conference, Boston, Massachusetts, 2011.

“What’s in a Tamarind Jar? Reevaluating the Use of Africanisms in the Study of the African Diaspora at Parting Ways.” Council for Northeast Historical Archaeology, St. Mary’s City, Maryland, 2008.

HONORS AND AWARDS

Angela J. and James J. Rallis Memorial Award, Boston University Humanities Foundation, to support dissertation research, 2010

Edwin S. and Ruth M. White Prize, Boston University Humanities Foundation, to support dissertation research, 2010

Presidential University Graduate Fellowship, Boston University, 2006–2010

Departmental Honors in History and General Honors, Vassar College, 2005

Lilo Stern Memorial Prize, Vassar College, for best student paper in Anthropology, Geography, or Sociology, 2005

PROFESSIONAL AFFILIATIONS

Society for Historical Archaeology
Society for American Archaeology
Council for Northeast Historical Archaeology

TECHNICAL SKILLS

Word, Excel, Access, Corel Draw, Illustrator, ArcGIS, SPSS, GPS, Blackboard

LANGUAGE SKILLS

Spoken/Written: English
Read: English, Spanish, and French

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Attachment 2. Site Information - Photographs

You are required to provide photographs and maps as part of this filing. Additional site information can be provided in an optional attachment.

Photograph Requirements:

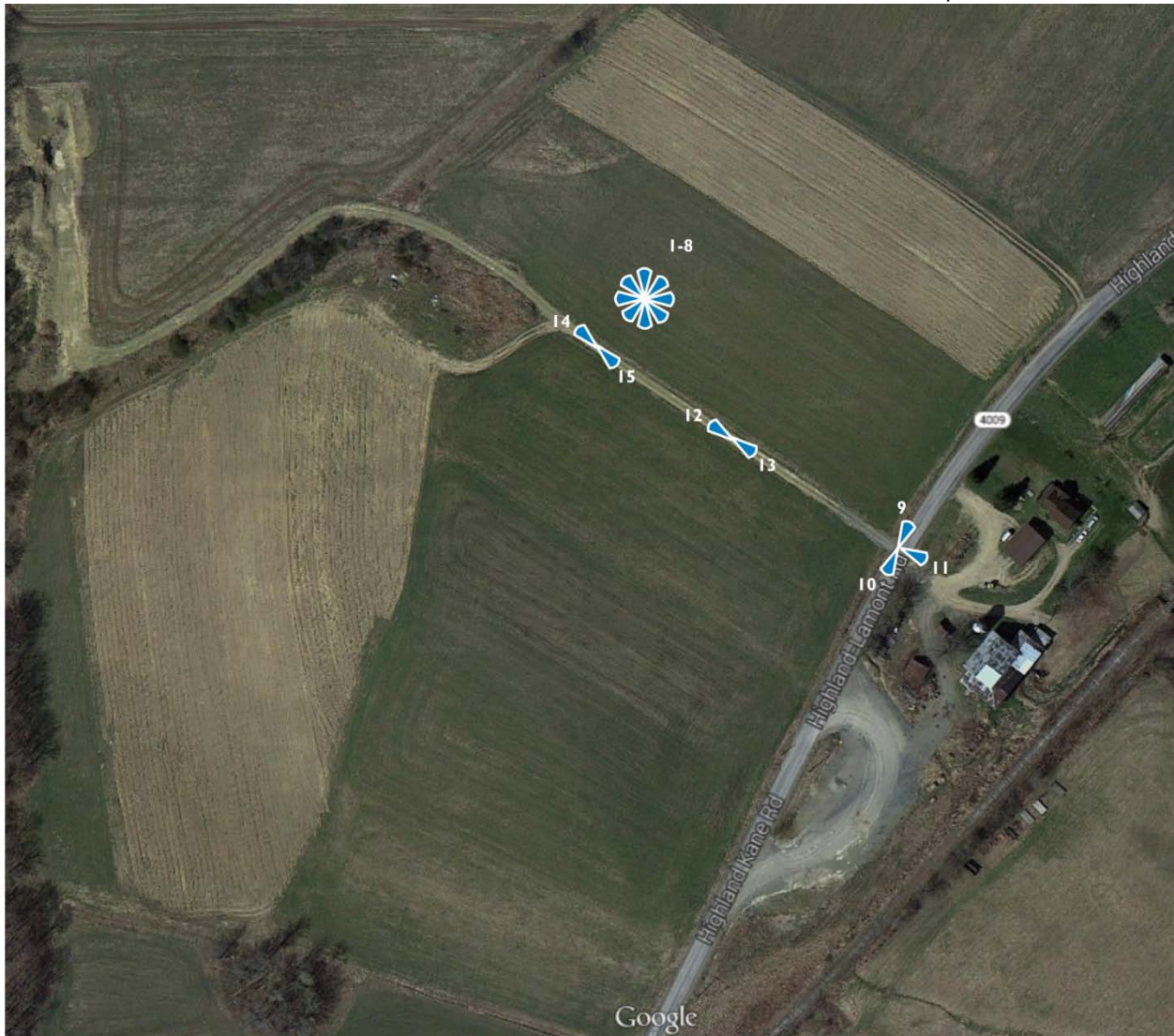
Except in cases where no Historic Properties were identified within the Areas of Potential Effects, submit photographs as described below. Photographs should be in color, marked so as to identify the project, keyed to the relevant map or text, and dated; the focal length of the lens and the height of the camera should be noted. The source of any photograph included but not taken by the Applicant or its consultant (including copies of historic images) should be identified on the photograph.

- a. Photographs taken from the collocation site should show views from the proposed location in all directions. The direction (e.g., north, south, etc.) should be indicated on each photograph, and, as a group, the photographs should present a complete (360 degree) view of the area around the communications tower or non-tower structure.
- b. Photographs of all listed and eligible properties within the Areas of Potential Effects.
- c. If any listed or eligible properties are visible from the proposed collocation site, photographs looking at the site from each historic property. The approximate distance in feet (meters) between the site and the historic property should be included. If any listed or eligible properties are within the APE, photos looking at each historic property should be included.

Include aerial photos of the APE for visual effects, if available. There are a variety of publicly available websites that provide aerial photographs.

Please see the attached Photographs, taken on June 19, 2014, unless otherwise noted. A photograph location map is included within this attachment.

Applicant's Name: Verizon Wireless
Project Name: Kane Lamont Relo
Project Number: 19752



Aerial Photo Showing Photo Locations and Angles (Google 2014)

Applicant's Name:	<u>Verizon Wireless</u>
Project Name:	<u>Kane Lamont Relo</u>
Project Number:	<u>19752</u>

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**1. View North at
proposed tower
location**



**2. View
Northeast at
proposed tower
location**

Applicant's Name: Verizon Wireless
Project Name: Kane Lamont Relo
Project Number: 19752

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3. View East at
proposed tower
location



4. View
Southeast at
proposed tower
location

Applicant's Name: Verizon Wireless
Project Name: Kane Lamont Relo
Project Number: 19752

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5. View South at
proposed tower
location



6. View
Southwest at
proposed tower
location

Applicant's Name: Verizon Wireless
Project Name: Kane Lamont Relo
Project Number: 19752

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**7. View West at
proposed tower
location**



**8. View
Northwest at
proposed tower
location**

Applicant's Name: Verizon Wireless
Project Name: Kane Lamont Relo
Project Number: 19752

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9. View
Northeast along
Highland Road at
proposed
entrance to
Project Area



10. View
Southwest along
Highland Road at
proposed
entrance to
Project Area

Applicant's Name: Verizon Wireless
Project Name: Kane Lamont Relo
Project Number: 19752

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11. View
Southeast across
Highland Road
from proposed
entrance to
Project Area



12. View
northwest along
access

Applicant's Name: Verizon Wireless
Project Name: Kane Lamont Relo
Project Number: 19752

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13. View
southeast along
access



14. View
northeast at
access to Lease
Area

Applicant's Name: Verizon Wireless
Project Name: Kane Lamont Relo
Project Number: 19752

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15. View
southwest at
access to Lease
Area

Applicant's Name: Verizon Wireless
Project Name: Kane Lamont Relo
Project Number: 19752

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Attachment 3. Site Information - Map Requirements

Include one or more 7.5-minute quad USGS topographical maps that:

- a.** Identify the Areas of Potential Effects for both Direct and Visual Effects. If a map is copied from the original, include a key with name of quad and date.
- b.** Show the location of the proposed collocation site and any new access roads or other easements including excavations.
- c.** Show the locations of each property listed.
- d.** Include keys for any symbols, colors, or other identifiers.
- e.** Submit color maps whenever possible.

The following maps are attached to this report:

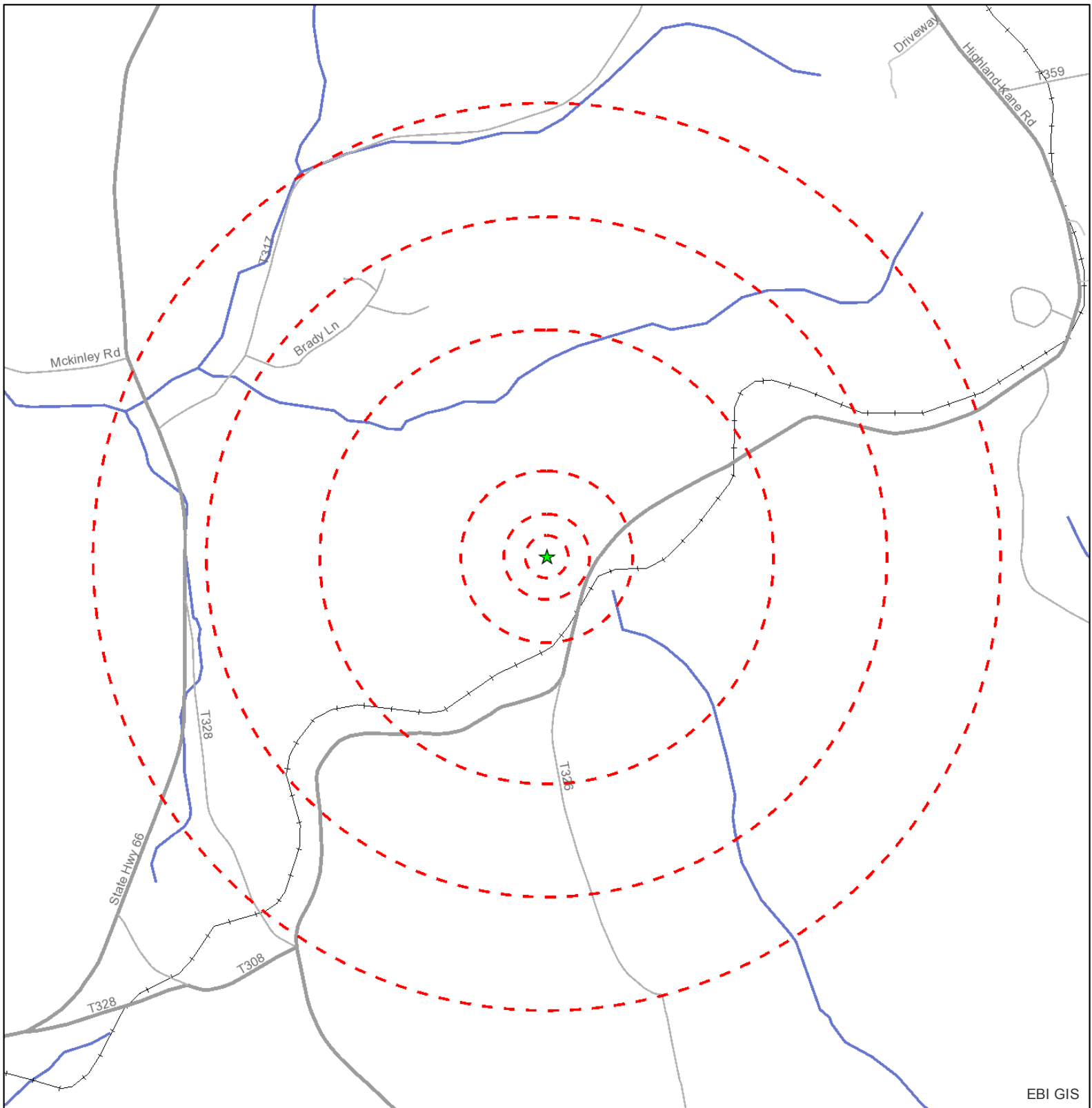
Street Map (Figure 1)

Topographic Map (Figure 2)

Aerial Photograph (See Photo Location Map; Attachment 2)

Historic Resources Map

Applicant's Name: Verizon Wireless
Project Name: Kane Lemont Relo
Project Number: 19752
FCC Form 620



Legend

- ★ Project Site
- Site Radius at 250', 500', 1000', 1/2, 3/4 & 1 mile

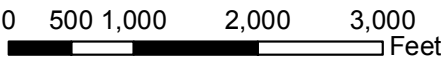
Source: Selected data from ESRI, EBI & USGS



EBI GIS

Date: 6/18/2014

Figure 1: Site Location Map



19752 KANE LAMONT RELO
3218 HIGHLAND ROAD
KANE, PA 16735



Source: Selected data from
ESRI, EBI & USGS



Date: 6/18/2014

USGS 24K Quad: James City, PA 1980

Legend

- ★ Project Site
- Site Radius at 250', 500', 1000', ½, ¾ & 1 mile

Site Radius at 250', 500', 1000', 1/2, 3/4 & 1 mile

0 500 1,000 2,000 3,000 Feet

Figure 2 - Topographic Map

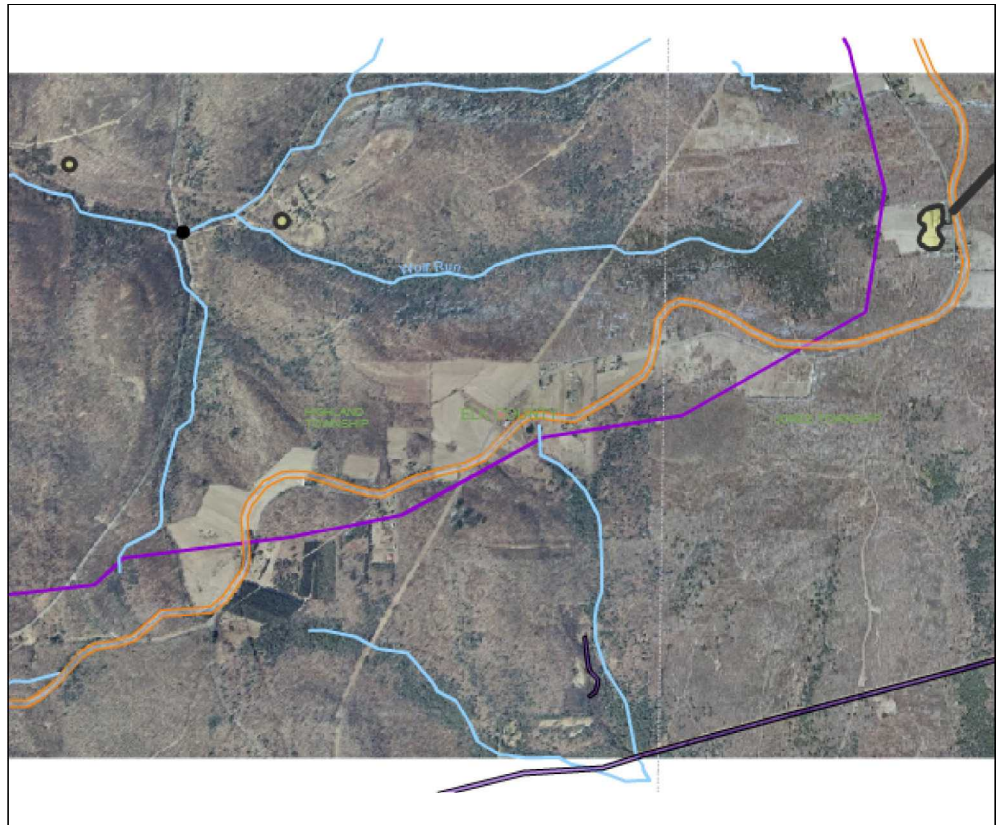
**19752 KANE LAMONT RELO
3218 HIGHLAND ROAD
KANE, PA 16735**

3218 HIGHLAND ROAD

KANE, PA 16735

6/27/2014 1:27:29 PM

-  - Historic Only
-  - Multi-comp Prehist/Hist
-  - Isolated Finds
-  - Prehistoric Only
-  - Surveyed Areas
-  - Bridge
-  - Bridges
-  - Undetermined
-  - Undetermined
-  - Undetermined
-  - NHL
-  - NHL
-  - NHL
-  - Listed
-  - Listed
-  - Listed
-  - Eligible
-  - Eligible
-  - Eligible
-  - Ineligible
-  - Ineligible
-  - Ineligible
-  - Water
-  - Physiographic Zones
-  - Watersheds
-  - All Municipalities
-  - County Boundaries
-  - Aerial



0 1280 ft 2559 ft

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Attachment 4.

Site Information – Additional Site Information

Additional Site Information Recommendations:

Describe any additional structures, access roads, utility lines, fences, easements, or other construction planned for the site in conjunction with the proposed wireless telecommunication facility. Use this attachment to provide additional details needed to present a full and accurate description of any construction activities that will take place to complete the installation.

The Subject Property, located at 3218 Highland Road, Kane, Elk County, PA, is situated within a predominantly rural landscape. The area surrounding the Subject Property within the Visual APE consists primarily of cleared fields and undeveloped woodland in all directions. Limited rural residential and farmstead development are present. A farmstead is located east of the Subject Property across Highland Road. According to historic aerial images, the farmstead dates to 1939 or earlier. The topography is hilly, and dense vegetative cover is present throughout the APE.

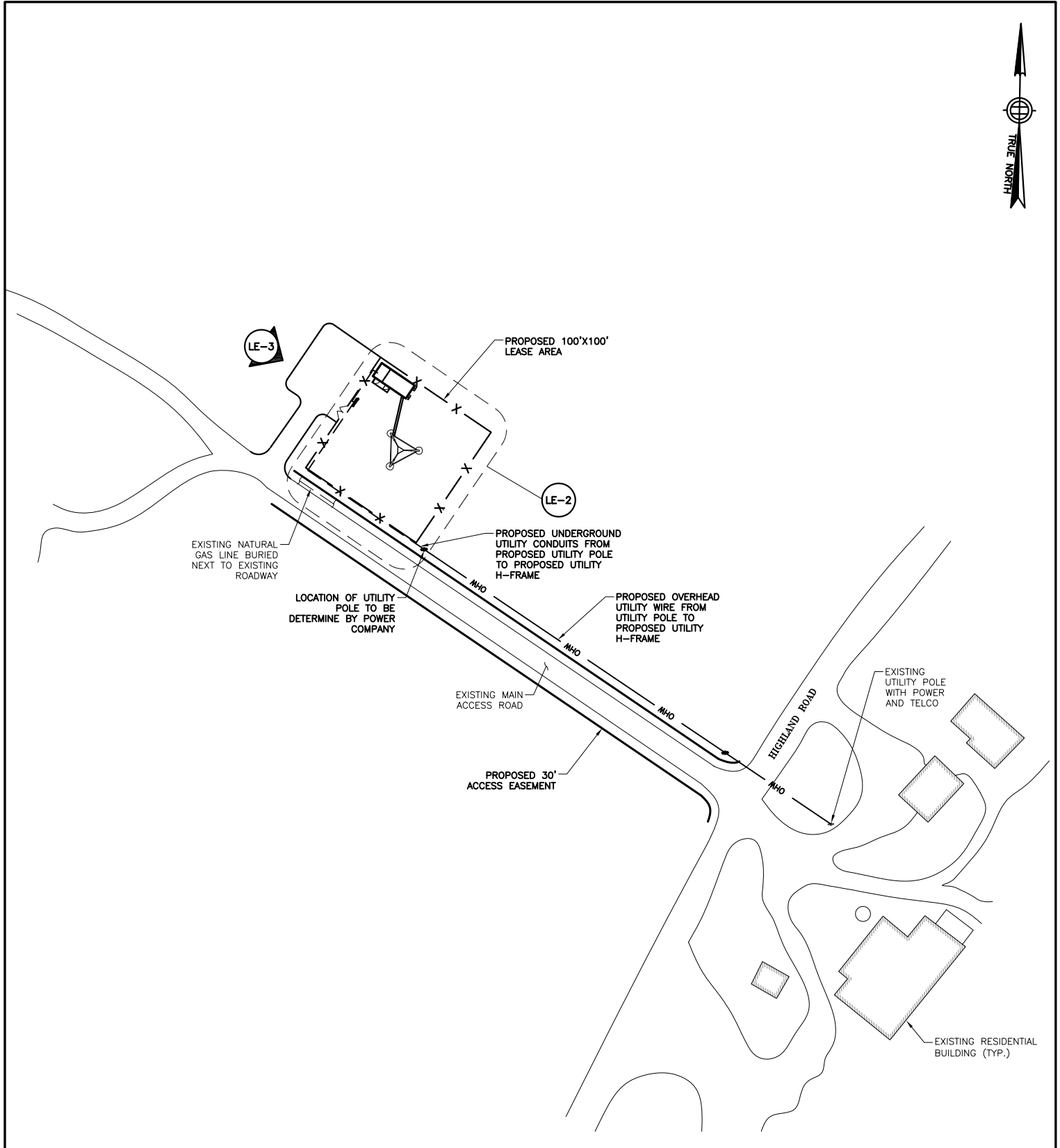
The Subject Property consists of an approximately 74.1 acre lot that is predominantly agricultural land and vacant woodland with no existing above ground improvements. A natural gas pipeline is present along the southeastern portion of the Subject Property.

Verizon Wireless is proposing to install a new telecommunications facility to consist of a 309 foot self-support lattice tower, with panel antennas mounted at 295 feet above grade. The tower and support equipment, including a 12 foot by 30 foot equipment shelter, will be located within a fenced compound within a 100 foot by 100 foot lease area. A 30 foot wide access and utility easement will extend southeast from the lease area to Highland Road. Utilities will be routed underground within this easement. An overhead utility wire will also be installed leading from a proposed utility pole at the southern corner of the lease area to an existing utility pole across Highland Road.

Site Plans/Lease Exhibits provided by Verizon Wireless are included in this attachment.

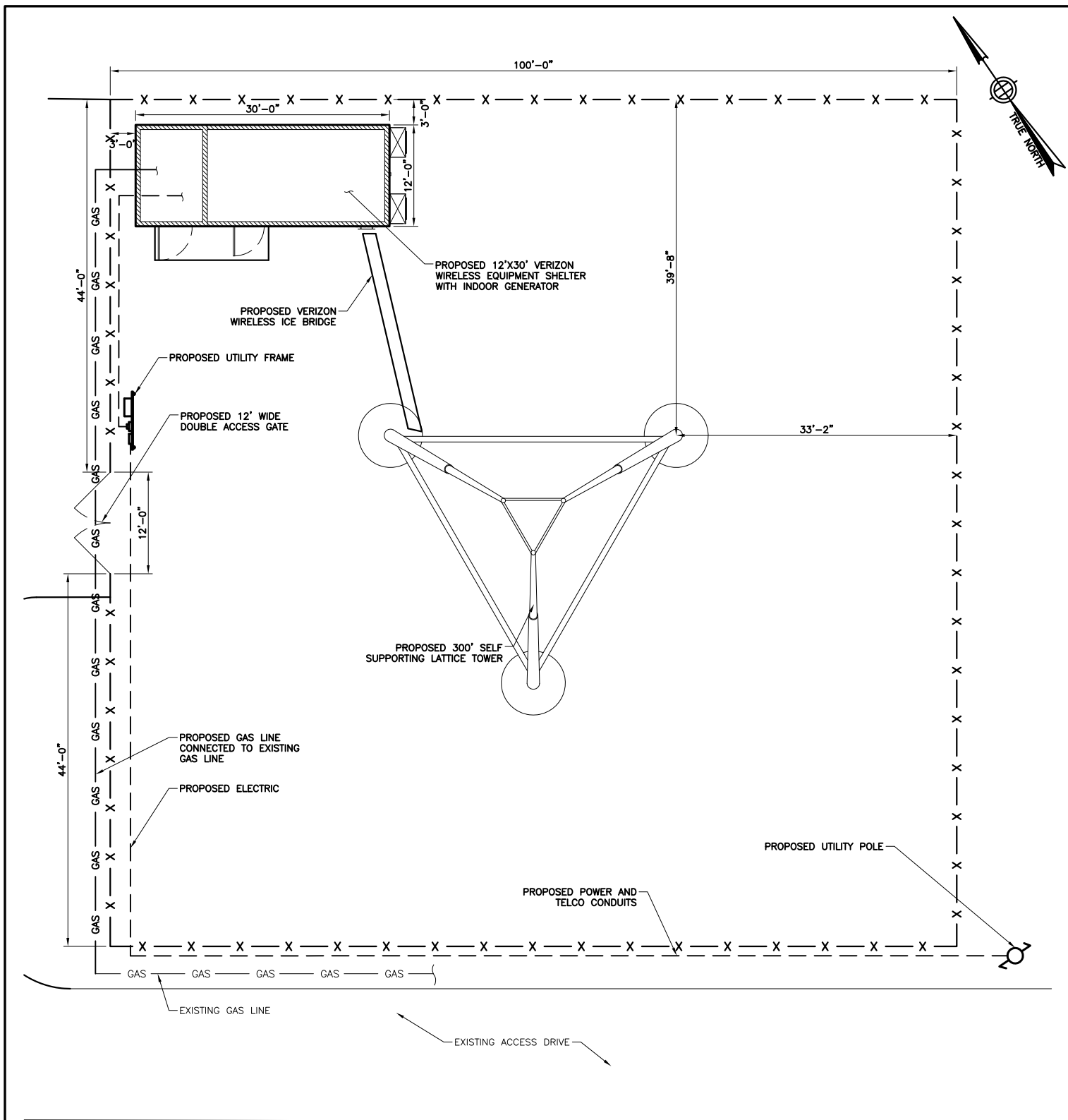
Applicant's Name: Verizon Wireless
Project Name: Kane Lemont Relo
Project Number: 19752

FCC Form 620



1





NOTE:
ALL EQUIPMENT LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO APPROVAL BY LESSEE/LICENSEE STRUCTURAL AND RF ENGINEERS.

EQUIPMENT PLAN

SCALE: 1/16" = 1'-0"

1



21 B Street
Burlington, MA 01803
Tel: 781.273.2500
Fax: 781.273.3311
www.ebiconsulting.com

EBI JOB NO.: 81131267

NORTHEAST PENNSYLVANIA SMSA, LP
d/b/a

verizonwireless

18 ABELE ROAD
BRIDGEVILLE, PA 15017
(717) 418-9935

SITE INFO:

**KANE LAMONT
RELO**

3218 HIGHLAND ROAD
KANE, PA 16735

SUBMITTALS

NO.	DATE	DESCRIPTION	BY	SS
1	12/19/13	FOR REVIEW	SS	CHECKED BY:
				JS
				DATE:
				12/19/13

DRAWN BY:

SS

CHECKED BY:

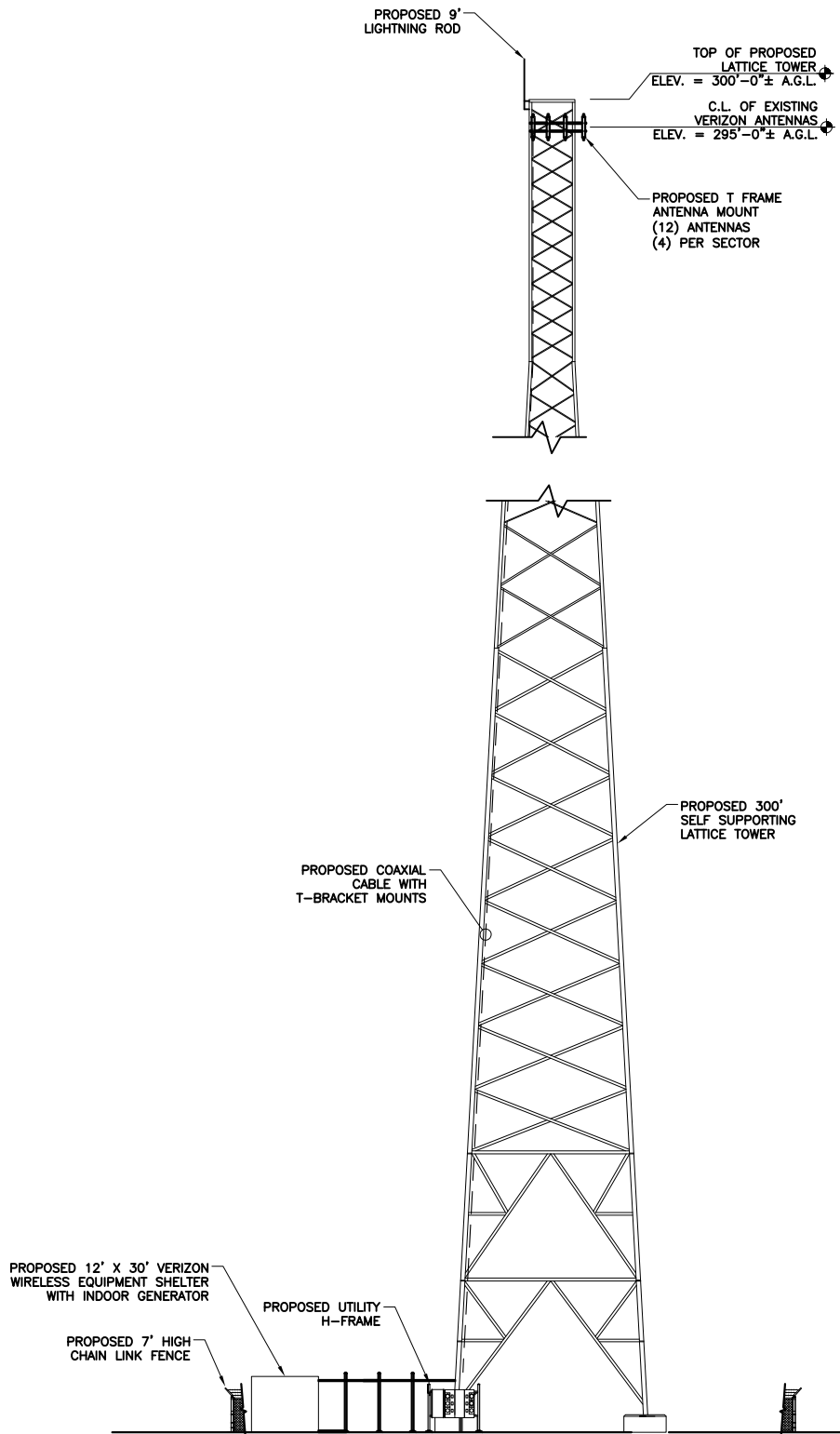
JS

DATE:

12/19/13

SHEET NO:

LE-2



NOTE:
ALL EQUIPMENT LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO APPROVAL BY LESSEE/LICENSEE STRUCTURAL AND RF ENGINEERS.

ELEVATION

SCALE: 1/32" = 1'-0"

1



21 B Street
Burlington, MA 01803
Tel: 781.273.2500
Fax: 781.273.3311
www.ebiconsulting.com

EBI JOB NO.: 81131267

NORTHEAST PENNSYLVANIA SMSA, LP
d/b/a

verizonwireless

18 ABELE ROAD
BRIDGEVILLE, PA 15017
(717) 418-9935

SITE INFO:

**KANE LAMONT
RELO**

3218 HIGHLAND ROAD
KANE, PA 16735

SUBMITTALS

NO.	DATE	DESCRIPTION	BY	SS
1	12/19/13	FOR REVIEW	SS	

DRAWN BY:

SS

CHECKED BY:

JS

DATE:

12/19/13

SHEET NO:

LE-3

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Attachment 5. Area of Potential Effects

You are required to provide two attachments regarding the Determination of Effect: Areas of Potential Effect and Mitigation of Effect (if applicable).

Areas of Potential Effect Guidelines:

a. Describe the APE for direct effects and explain how this APE was determined.

The APE for direct effects is limited to the area of potential ground disturbance and any property, or any portion thereof, that will be physically altered or destroyed by the Undertaking. On November 24, 2008, the FCC further clarified that the APE-Direct Effects is limited to the proposed lease area including the access route and utility corridor. EBI Consulting completed a field survey on June 19, 2014, and determined that the APE for direct effects is limited to the access/utility route and the proposed 100-foot by 100-foot lease area.

b. Describe the APE for visual effects and explain how this APE was determined.

The APE for visual effects is the geographic area in which the Undertaking has the potential to introduce visual elements that diminish or alter the setting, including the landscape, where the setting is a character-defining feature of a historic property that makes it eligible for listing on the National Register. The presumed APE for visual effects for construction of new facilities is the area from which the tower will be visible: a. Within a half mile from the tower site if the proposed Tower is 200 feet or less in overall height; b. Within $\frac{3}{4}$ of a mile from the tower site if the proposed Tower is more than 200 but no more than 400 feet in overall height; or c. Within $1\frac{1}{2}$ miles from the proposed tower site if the proposed Tower is more than 400 feet in overall height.

Due to the height of the proposed tower, the presumed APE for visual effects for this project is a $\frac{3}{4}$ -mile radius from the tower site.

Mitigation of Effect Guidelines:

In the case where an Adverse Visual Effect or Adverse Direct Effect has been determined you must provide the following:

a. Copies of any correspondence and summaries of any oral communications with the SHPO/THPO and any consulting parties.

As of the date of this report, there has been no correspondence with the SHPO/THPO.

b. Describe any alternatives that have been considered that might avoid, minimize, or mitigate any adverse effects. Explain the Applicant's conclusion regarding the feasibility of each alternative.

No adverse effects are expected as a result of the proposed facility; therefore alternatives that might avoid, minimize, or mitigate any adverse effects need not be considered.

For each property identified as a Historic Property in the online e-106 form:

Indicate whether the Applicant believes the proposed undertaking would have a) no effect; b) no adverse effect; or, c) an adverse effect. Explain how each such assessment was made. Provide supporting documentation where necessary.

Applicant's Name: Verizon Wireless
Project Name: Kane Lemont Relo
Project Number: 19752

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The research and consultation process has not identified any historic properties within either APE. Therefore, the finding of effect is "No Historic Properties in the Area of Potential Effects – Direct Effects and Visual Effects." We request your concurrence with this determination.

Applicant's Name: Verizon Wireless
Project Name: Kane Lemont Relo
Project Number: 19752

FCC Form 620

NT SUBMISSION PACKET -- FCC FORM 620

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public burden estimates

Attachment 6. Tribal and NHO Involvement

At an early stage in the planning process, the Nationwide Agreement requires the Applicant to gather information from appropriate Indian Tribes or Native Hawaiian Organizations (“NHOs”) to assist in the identification of Historic Properties of religious and cultural significance to them. Describe measures taken to identify Indian tribes and NHOs that may attach religious and cultural significance to Historic Properties that may be affected by the collocation within the Areas of Potential Effects (“APE”) for direct and visual effects. If such Indian tribes or NHOs were identified, list them and provide a summary of contacts by either the FCC, the Applicant, or the Applicant’s representative. Provide copies of relevant documents, including correspondence. If no such Indian tribes or NHOs were identified, please explain.

EBI Consulting filed the proposed undertaking on the FCC’s Tower Construction Notification System (TCNS). The attached FCC Notification email lists the Tribes identified through the TCNS process. Follow up correspondence, when necessary, will be completed via the methods listed on the attached email considered acceptable to each Tribe.

Applicant’s Name: Verizon Wireless
Project Name: Kane Lemont Relo
Project Number: 19752
FCC Form 620

Talia Gilmore

From: towernotifyinfo@fcc.gov
Sent: Friday, June 13, 2014 3:03 AM
To: Talia Gilmore
Cc: Jonathan.Jonas@fcc.gov; diane.dupert@fcc.gov
Subject: NOTICE OF ORGANIZATION(S) WHICH WERE SENT PROPOSED TOWER CONSTRUCTION NOTIFICATION INFORMATION - Email ID # 3773085

Dear Sir or Madam:

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this electronic mail message is to inform you that the following authorized persons were sent the information you provided through TCNS, which relates to your proposed antenna structure. The information was forwarded by the FCC to authorized TCNS users by electronic mail and/or regular mail (letter).

Persons who have received the information that you provided include leaders or their designees of federally-recognized American Indian Tribes, including Alaska Native Villages (collectively "Tribal Nations"), Native Hawaiian Organizations (NHOs), and State Historic Preservation Officers (SHPOs). For your convenience in identifying the referenced Tribal Nations and NHOs and in making further contacts, the City and State of the Seat of Government for each Tribal Nation and NHO, as well as the designated contact person, is included in the listing below. We note that Tribal Nations may have Section 106 cultural interests in ancestral homelands or other locations that are far removed from their current Seat of Government. Pursuant to the Commission's rules as set forth in the Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission (NPA), all Tribal Nations and NHOs listed below must be afforded a reasonable opportunity to respond to this notification, consistent with the procedures set forth below, unless the proposed construction falls within an exclusion designated by the Tribal Nation or NHO. (NPA, Section IV.F.4).

The information you provided was forwarded to the following Tribal Nations and NHOs. If a Tribal Nation or NHO does not respond within a reasonable time, you should make a reasonable effort at follow-up contact, unless the Tribal Nation or NHO has agreed to different procedures (NPA, Section IV.F.5). In the event a Tribal Nation or NHO does not respond to a follow-up inquiry, or if a substantive or procedural disagreement arises between you and a Tribal Nation or NHO, you must seek guidance from the Commission (NPA, Section IV.G). These procedures are further set forth in the FCC's Declaratory Ruling released on October 6, 2005 (FCC 05-176).

1. Cultural Preservation Director Tamara Francis-Fourkiller - Delaware Nation - Anadarko, OK - regular mail
Details: The Delaware Nation located in Anadarko, Oklahoma charges a \$500 administrative fee for the review of ALL projects. (Change Effective 5/21/2013).
Send fee payable to the Delaware Nation in the form of a check or money order.
All projects for review by the Delaware Nation must pay the \$500 fee.
Please note that the Delaware Nation and the Delaware Tribe of Indians ARE NOT the same entity.
Send all correspondence for the Delaware Nation to The Delaware Nation
ATTN: Cultural Preservation Department
31064 State Hwy 281
Anadarko, OK 73005.

2. THPO Joseph Blanchard - Absentee-Shawnee Tribe of Indians of Oklahoma - Shawnee, OK - electronic mail and regular mail

Details: If the ground of the proposed project area has been previously disturbed, or if there will be no ground disturbing activity, then we request no further project notification.

For all other proposed projects, please send a copy of the cultural resources/archeological survey for the proposed site, and the response letter from the respective SHPO. Please Include the county of the proposed project location and also include the TCNS number on your correspondence to us.

For all projects, we do request to be notified upon the discovery of American Indian remains and related and/or unrelated funerary objects anywhere within the state.

If the applicant/tower builder receives no response from the Absentee-Shawnee Tribe of Indians of Oklahoma within 30 days after notification through TCNS, the Absentee-Shawnee Tribe of Indians of Oklahoma has no interest in participating in pre-construction review for the proposed site. The Applicant/tower builder, however, must immediately notify the Absentee-Shawnee Tribe of Indians of Oklahoma in the event archaeological properties or human remains are discovered during construction, consistent with Section IX of the Nationwide Programmatic Agreement and applicable law.

3. Chief Roger Hill - Tonawanda Band of Seneca - Basom, NY - electronic mail and regular mail

Details: If the Applicant/tower builder receives no response from the Tonawanda Seneca Nation within 30 days after notification through TCNS, the Tonawanda Seneca Nation has no interest in participating in pre-construction review for the site. The Applicant/tower builder, however, must IMMEDIATELY notify Christine Abrams of the Tonawanda Seneca Nation in the event archaeological properties or human remains are discovered during construction (tonseneca@aol.com or 716-542-4244).

4. Chief Leo R Henry - Tuscarora Nation - Via: Lewiston, NY - regular mail

Details: If the Applicant/tower builder receives no response from the Tuscarora Nation within 30 days after notification through TCNS, the Tuscarora Nation has no interest in participating in pre-construction review for the site. The Applicant/tower builder, however, must IMMEDIATELY notify the Tuscarora Nation in the event archaeological properties or human remains are discovered during construction.

5. THPO/NAGPRA Supervisor Juliet K Goyen - Keweenaw Bay Indian Community - Baraga, MI - electronic mail

Details: The KBIC THPO reviews all projects within historic homelands for the presence of cultural resources with significance to the Anishinaabe. Your request will go through a preliminary review by our THPO/NAGPRA Technician, the review consists of relevant studies submitted by the applicant regarding cultural resources documentation, in house literature search, database search and GIS search for further information. If any cultural resources are identified during this process, the file will be turned over to the Tribal Historic Preservation Officer in order to make a determination of effects.

Information required in order to complete this process are as follows:

Project Name

Project Location

Physical Address

Latitude and Longitude

State, County, Township, Range, Section quarters Brief Project Description Existing studies for archaeological sites, and cultural resources.

As of June 11, 2014 the KBIC THPO will be charging a fee of \$500.00 per review/collocation unless the review covers more than one section of land in which case the fee is \$500.00 per section. Fees in this process cover the research and other activities required to provide you with a timely response so your project can stay on track. Please submit payment of \$500.00 for each project application submitted, checks should be made payable to KBIC THPO, 16429 Beartown Road, Baraga, Michigan 49908. Any questions can be directed to: Juliet K. Goyen, THPO/NAGPRA Supervisor or Minogheezhig Sandman - Shelifoe via email: jgoyen@kbic-nsn.gov or thpo@kbic-nsn.gov, minogheezhig@kbic-nsn.gov or by phone: 906-353-6623 ext. 4278 or 4272.

6. THPO Corina Mrozinski - Oneida Nation of Wisconsin - Oneida, WI - electronic mail and regular mail

7. THPO/NAGPRA Rep. Paul Barton - Seneca-Cayuga Tribe of Oklahoma - Grove, OK - electronic mail and regular mail
Details: Thank you for contacting the Seneca-Cayuga Tribe of Oklahoma. The Seneca Cayuga Tribe is committed to protecting sites important to Tribal Heritage, Culture and Religion. Furthermore the Tribe is particularly concerned with historical sites that may contain but not limited to the burial(s) of human remains and associated funerary objects.

Please note current changes in the Seneca Cayuga Cell Tower Consultation Procedures. As of March 1, 2013, the Seneca Cayuga Tribe will be increasing the Research & Review Fee to \$350.00 for all proposed projects With ground disturbing activities, projects such as Co-location sites which DO NOT require ground disturbance, will continue to be exempt from any fees and no written response will be processed or sent. Co-location projects only need to submit email of basic Project information (location and description) to Paul Barton, THPO (pbarton@sctribe.com) to be filed within Seneca Cayuga Tribal Records.

Please send a check or money order with Project Notice and TCNS Identification number, in the amount of \$350, made payable to Seneca-Cayuga Tribe CHPP, to the following address:

Seneca-Cayuga NAGPRA Office
c/o Paul Barton, THPO/NAGPRA Rep.
23701 South 655 Road
Grove, OK 74344

The Seneca-Cayuga Tribe of Oklahoma will provide written Responses within 30 days AFTER receipt of proper Project Notice and the \$350.00 review fee. PROPER PROJECT NOTICE shall consist of Contact Information, Project Number (TCNS), Tower Information, SHPO Letter, Archaeological Surveyreport and Location Map, for detailed description of proper Project Notice

information please refer to the Seneca Cayuga Cell Tower Consultation Procedures. For a copy of the Seneca Cayuga Cell Tower Consultation Procedures please send request to Paul Barton, THPO (pbarton@sctribe.com).

We do not wish to consult on collocations that do NOT involve ground disturbance, therefore No response will be made. Collocations that do NOT involve ground disturbance are exempt from any fees. We DO wish to consult on collocations that DO involve ground disturbance. Collocations that do involve ground disturbance will require the \$350 processing fee.

8. Archaeologist Rebecca Hawkins - Eastern Shawnee Tribe of Oklahoma - Wyandotte, OK - electronic mail

Details: The following information is provided automatically via the TCNS web site. Additional information may be provided in the email that we send for each tower that is logged into TCNS. However, as we have been unable to use the TCNS website reliably to send our second response email since early March 2014, this very likely will be the ONLY email that you receive until the technical issue preventing us from using that feature has been addressed.

NEW INFORMATION - From this point forward, please send the required information for our review by email ONLY. Send the fee and a cover letter by hard copy to the Tribe, but DO NOT send review information by hard copy. Doing so will delay the review.

The Eastern Shawnee Tribe of Oklahoma is interested in consulting on this tower, PTC, or broadband project, just as we are interested in consulting on all federal undertakings in our areas of geographic interest.

Consultation regarding our heritage resources is one of the activities required by the National Historic Preservation Act (NHPA) for undertakings licensed or permitted by federal agencies such as the FCC.

Please note our new mailing address: 70500 East 128 Road, Wyandotte, OK 74370

Please carefully review our archaeological procedures (dated 9-9-13) and our NHPA consultation procedures (dated 3-1-2013). Please provide the archaeology procedures to your archaeologists BEFORE they do field work. These procedures may be obtained by mailing the cell tower program archaeologist, Rebecca Hawkins (algonquin@neok.com). We will object to the construction of all towers where field work and reporting do not accommodate these procedures.

Archaeological field work and analysis must be performed by a degreed and experienced archaeologist. Field work and analysis performed by others will not be accepted, AS STATED IN OUR GUIDELINES. The National Park Service defines Essential Competencies for the field of archaeology at <http://www.nps.gov/training/npsonly/RSC/archeolo.htm>. Minimally, a "trained, experienced archaeologist" has at least a BA in Anthropology with a focus in archaeology and two solid years of field experience in the region where the field work is being performed.

All further correspondence regarding this tower should also be directed to that e-mail address or to Mr. Lamont Laird via phone at 918-533-2212.

As of TCNS #107500 and higher, the fee for new builds in undisturbed contexts is \$550. The fee for collocations and towers - including PTC facilities - slated for previously disturbed areas has been revised to \$100 as of TCNS #99800 and higher.

Thank you,

Eastern Shawnee Tribe of Oklahoma

9. THPO Sherri Clemons - Wyandotte Nation - Wyandotte, OK - electronic mail
Details: Greetings from Wyandotte Nation.

The following information is provided automatically via the TCNS web site. Additional information may be provided in a second email that we send for each tower that is logged into TCNS. However, as we have been unable to use the TCNS website reliably to send our second response email since early April 2014, this very likely will be the ONLY email that you receive until the technical issue preventing us from using that feature has been addressed.

NEW INFORMATION- From this point forward, please send the required information for our review by email ONLY. Send the fee and a cover letter by hard copy to the Tribe, but DO NOT send review information by hard copy. Doing so will delay the review.

We are interested in consulting on this tower or broadband project, just as we are interested in being consulted regarding all federal undertakings in our homelands. This consultation is one of the activities required by the National Historic Preservation Act (NHPA) for such federal undertakings.

Please follow our archaeology procedures (9-9-13) and our general NHPA procedures for consultation (6-1-13), both available by e-mailing the cell tower program archaeologist, Rebecca Hawkins, at algonquin@neok.com. These procedures supersede all earlier versions of our procedures. All further correspondence regarding this tower should also be directed to that email address. With questions, you may call Mr. Lamont Laird at 918-533-2212.

AS STATED IN OUR GUIDELINES, AN ARCHAEOLOGIST MUST PERFORM THE FIELD WORK AND RELATED ANALYSES. The Wyandotte Nation will object to any tower where field work/analysis was performed after 9-9-13 and where a trained, experienced archaeologist did NOT conduct the field work. The National Park Service defines Essential Competencies for the field of archaeology at <http://www.nps.gov/training/npsonly/RSC/archeolo.htm>. Minimally, a "trained, experienced archaeologist" has at least a BA in Anthropology with a focus in archaeology and two solid years of field experience in the region where the field work is being performed.

The fee for all collocations and towers built in previously disturbed areas is \$100. The fee for all other towers is \$600.

Please make sure to provide your archaeologists with a copy of our procedures PRIOR TO the time that they do field work. If archaeology reports do not provide the information requested on the last 2 pages of our archaeology procedures, which you may use as a checklist, the report will be rejected. Please do not send reports that you know are deficient, as doing only delays the response process for your tower and those of other applicants as well.

Tizame (thank you),

Sherri Clemons, THPO
Wyandotte Nation

10. THPO Kim Jumper - Shawnee Tribe - Miami, OK - regular mail

Details: THIS IS YOUR OFFICIAL NOTICE THAT THE SHAWNEE TRIBE IS INTERESTED IN CONSULTING ON ALL PROJECTS BUILT IN OUR AREAS OF GEOGRAPHIC INTEREST.

ATTENTION, NEW INFORMATION: Our procedures were updated on 14 January 2008. Please call Kim Jumper, THPO, at 918-542-2441, so that she can send you a copy.

If your tower is a co-location, please fax us this information to let us know. We cannot always tell from the TCNS web site that a tower is a co-location. We require a written response from you to let us know that it is a co-location. If a co-location project includes some new ground disturbance (such as from an expanded compound or access road, or construction of an ancillary structure), the Shawnee Tribe treats such a project the same as any other non co-location project.

Our correct mailing/physical address is: 29 South Highway 69A. Our correct phone number is (918-542-2441) and our historic preservation fax line is (918-542-9915). THPO Kim Jumper manages all cell tower consultation.

As of 26 June 2006, all of the faxed responses of our final comments on a tower site will contain an original Shawnee Tribe signature. Each final comment fax is signed individually. Copies may be compared, for authentication, against the original in our files. If a final comment fax does not contain a signature, it is not valid. ALL FINAL COMMENTS FROM THE SHAWNEE TRIBE ARE WRITTEN; FINAL COMMENTS ARE NEVER PROVIDED VERBALLY. IF THE SHAWNEE TRIBE IS CREDITED WITH HAVING GIVEN A VERBAL RESPONSE, THAT RESPONSE IS NOT VALID.

If you receive notification through the TCNS listing the Shawnee Tribe, that is an indication that the Shawnee Tribe is interested in consulting on the tower for which that notification was received. Please consider that our official indication of interest to you. The Shawnee Tribe considers the Tower Construction Notification System's weekly e-mail to be the first notification that we receive that a tower will be constructed in an area of our concern. We do not view the TCNS notifications as completion of 106 consultation obligations.

The Shawnee Tribe has developed streamlined consultation procedures for cell tower developers and their subcontractors. If you do not have a copy of the procedures - most recently updated on 14 January 2008 - please contact us, as you must follow these procedures to consult with us on cell tower projects. Call us at 918-542-2441 or fax us at 918-542-9915. It is the tower builder's responsibility to make sure that you have our most recent consultation procedures.

PLEASE DO NOT SEND US INFORMATION, QUERIES, OR COMMENTS ELECTRONICALLY. SINCE 1 DECEMBER 2005, WE HAVE NOT HANDLED ANY CELL TOWER CONSULTATION, INQUIRIES, OR CORRESPONDENCE VIA E-MAIL.

11. THPO Alvin Windy Boy - Chippewa Cree Tribe of the Rocky Boy's Reservation - Box Elder, MT - electronic mail and regular mail

Details: Online submissions can be completed at <http://Nei-yahw.com>

As of April 3, 2014 the Chippewa Cree Tribe through the Cultural Resource Preservation Department has established a new fee of \$400.00 per consultation. Our Paypal account has been suspended and we are working on a new method for electronic payment submission. We are only accepting checks at this time.

Please utilize the Tribal 106 NHPA consultation processing system on our website.

Any questions please feel free to contact Alvin Windy Boy Sr. at alvin@nei-yahw.com or phone (406)352-3077. THANK YOU!

12. Tribal Historic Preservation Officer Melissa Bach - Seneca Nation of Indians - Salamanca, NY - electronic mail and regular mail

Details: In addition to the online notices, please attach any relevant SHPO comments/reviews and detailed topographic maps when you initially file your TCNS notification. Otherwise, please forward this information to us at the address listed below. Thank you.

Melissa Bach, Tribal Historic Preservation Officer
Thomas Oldshield, Cultural Resource Project Manager
Seneca Nation of Indians
P.O. Box 231
Salamanca, N.Y. 14779
716-945-1790
melissa.bach@sni.org
thomas.oldshield@sni.org

If the applicant/tower builder receives no response from the Seneca Nation of Indians within 30 days after notification through TCNS, the Seneca Nation of Indians has no interest in participating in pre-construction review for the proposed site. The Applicant/tower builder, however,

must immediately notify the Seneca Nation of Indians in the event archaeological properties or human remains are discovered during construction, consistent with Section IX of the Nationwide Programmatic Agreement and applicable law.

13. Dr. Brice M Obermeyer - Delaware Tribe of Indians of Oklahoma - Emporia, KS - electronic mail

Details: In order to receive a formal response for all projects associated with the construction of towers and/or equipment associated with the Positive Train Control (PTC) Wayside Infrastructure, please provide a consultation fee of \$500. For all other projects the consultation fee is \$250.

For all review requests, the fee should be included with the mailed notification packet. Notifications should include a cover letter describing the project and a topographic map depicting the project's location.

Please send all notifications and checks for projects located in the states of Vermont, Connecticut, Massachusetts, New York, New Jersey, Pennsylvania, Delaware, Maryland and Virginia to the following address:

Delaware Tribe Historic Preservation Representatives
Department of Anthropology
Gladfelter Hall, Room 207
Temple University
1115 W. Polett Walk
Philadelphia, PA 19122

For projects located in the states of Ohio, Indiana, Missouri, Kansas and Oklahoma, please send all notifications and checks to the following address:

Brice Obermeyer
Delaware Tribe Historic Preservation Office
Rm 212 Roosevelt Hall
1 Kellogg Drive
Emporia State University
Emporia, KS 66801

The Delaware Tribe is not interested in receiving notifications for projects that do not include ground disturbance.

Thank you.

Sincerely,
Dr. Brice Obermeyer
Delaware Tribe Historic Preservation Office
1 Kellogg Drive, Roosevelt Hall - Room 212
Emporia, Kansas 66801
620-341-6699
bobermeyer@delawaretribe.org

The information you provided was also forwarded to the following SHPOs in the State in which you propose to construct and neighboring States. The information was provided to these SHPOs as a courtesy for their information and planning. You need make no effort at this time to follow up with any SHPO that does not respond to this notification. Prior to construction, you must provide the SHPO of the State in which you propose to construct (or the Tribal Historic Preservation Officer, if the project will be located on certain Tribal lands), with a Submission Packet pursuant to Section VII.A of the NPA.

14. Department Head Mark J Epstein - Ohio Historic Preservation Office - Columbus, OH - electronic mail and regular mail

15. Deputy SHPO Franco Ruffini - Ohio Historic Preservation Office - Columbus, OH - electronic mail

16. SHPO Ann Safley - Pennsylvania Historical & Museum Commission Bureau for Historic Preservation - Harrisburg, PA - electronic mail

17. Deputy SHPO Susan Pierce - West Virginia Division of Culture & History, Historic Preservation Office - Charleston, WV - electronic mail

18. Department Head, Res. Protect. & Rev. Mark Epstein - Ohio Historic Preservation Office - Columbus, OH - electronic mail and regular mail

19. SHPO Barbara Franco - Pennsylvania Historical and Museum Commission - Harrisburg, PA - electronic mail

"Exclusions" above set forth language provided by the Tribal Nation or SHPO. These exclusions may indicate types of PTC wayside pole notifications that the Tribal Nation or SHPO does not wish to review. TCNS automatically forwards all notifications to all Tribal Nations and SHPOs that have an expressed interest in the geographic area of a proposal. However, if a proposal falls within a designated exclusion, you need not expect any response and need not pursue any additional process with that Tribal Nation or SHPO. Exclusions may also set forth policies or procedures of a particular Tribal Nation or SHPO (for example, types of information that a Tribal Nation routinely requests, or a policy that no response within 30 days indicates no interest in participating in pre-construction review).

Please be advised that the FCC cannot guarantee that the contact(s) listed above opened and reviewed an electronic or regular mail notification. The following information relating to the proposed tower was forwarded to the person(s) listed above:

Notification Received: 06/10/2014
Notification ID: 112574
Tower Owner Individual or Entity Name: Verizon Wireless
Consultant Name: Talia C Gilmore
Street Address: 2909 N Sherman Street
City: York
State: PENNSYLVANIA
Zip Code: 17406
Phone: 717-683-3030
Email: tgilmore@ebiconsulting.com

Structure Type: LTOWER - Lattice Tower
Latitude: 41 deg 35 min 34.6 sec N
Longitude: 78 deg 49 min 29.9 sec W
Location Description: 3218 Highland Road
City: Kane
State: PENNSYLVANIA
County: ELK
Detailed Description of Project: EBI 61145635 / EnSite 19752 Proposed construction of a new telecommunications self-support lattice tower and compound
Ground Elevation: 617.8 meters
Support Structure: 91.4 meters above ground level

Overall Structure: 94.2 meters above ground level
Overall Height AMSL: 712.0 meters above mean sea level

If you have any questions or comments regarding this notice, please contact the FCC using the electronic mail form located on the FCC's website at:

<http://wireless.fcc.gov/outreach/notification/contact-fcc.html>.

You may also call the FCC Support Center at (877) 480-3201 (TTY 717-338-2824). Hours are from 8 a.m. to 7:00 p.m. Eastern Time, Monday through Friday (except Federal holidays). To provide quality service and ensure security, all telephone calls are recorded.

Thank you,
Federal Communications Commission

Attachment 7. Historic Properties Direct Effects**a. List all properties within the APE for direct effects.**

On June 27, 2014, EBI completed a review of the available records as required per Section VI.D.2 of the Federal Communications Commission's 2004 Nationwide Programmatic Agreement to identify historic properties in the APE for Direct Effects. Based on this review no Historic Properties were identified within the APE for direct effects.

b. Provide the name and address (including U.S. Postal Service ZIP Code) of each property in the APE for direct effects, not listed in part "a." (above), that the Applicant considers to be eligible for listing in the National Register as a result of the Applicant's research. For each such property, describe how it satisfies the criteria of eligibility (36 C.F.R. Part 63). For each property that was specifically considered and determined not to be eligible, describe why it does not satisfy the criteria of eligibility.

The subject property primarily consists of agricultural land and woodland. There are no above-ground structures, objects or buildings present within the APE-DE as defined above.

c. Describe the techniques and the methodology, including any field survey, used to identify Historic Properties within the APE for direct effects.¹ If no archeological field survey was performed, provide a report substantiating that: i) the depth of previous disturbance exceeds the proposed construction depth (excluding footings and other anchoring mechanisms) by at least 2 feet; or, ii) geomorphological evidence indicates that cultural resource-bearing soils do not occur within the project area or may occur but at depths that exceed 2 feet below the proposed construction depth.²

EBI Consulting completed an evaluation of the proposed Project Site for the likelihood of containing archeological Historic Properties. Please refer to the attached report documenting the findings of this project review by a qualified archaeologist including a description of the techniques and the methodology used to identify Historic Properties within the APE for direct effects. This report concludes that archeological resources are not expected to be impacted by the construction of the proposed tower and installation of associated support equipment at the Project Site.

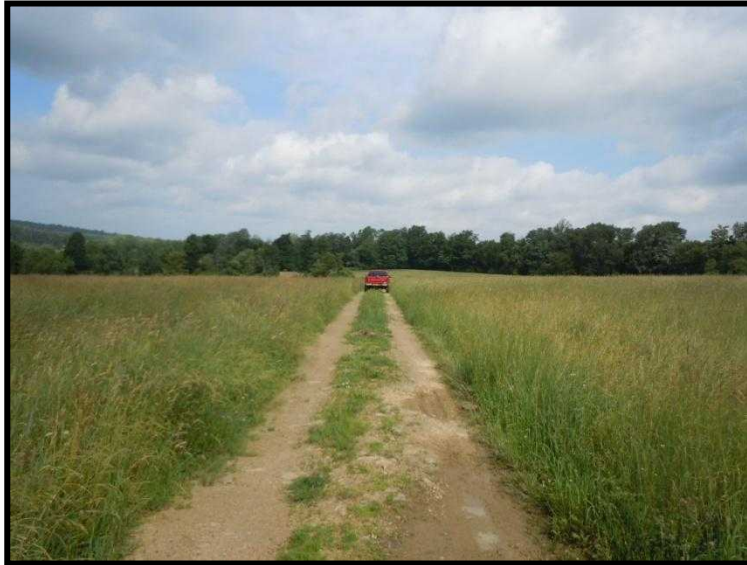
¹ Pursuant to Section VI.D.2.a. of the Nationwide Agreement, Applicants shall make a reasonable and good faith effort to identify above ground and archeological Historic Properties, including buildings, structures, and historic districts, that lie within the APE for direct effects. Such reasonable and good faith efforts may include a field survey where appropriate.

² Under Section VI.D.2.d. of the Nationwide Agreement, an archeological field survey is required even if none of these conditions applies, if an Indian tribe or NHO provides evidence that supports a high probability of the presence of intact archeological Historic Properties within the APE for direct effects.

Applicant's Name: Verizon Wireless
Project Name: Kane Lemont Relo
Project Number: 19752

Phase I Cultural Resources Reconnaissance Survey

Prepared for:
Verizon Wireless
VZW HQ - NEPA
Regulatory Compliance
6 Campus Circle, Suite 500
Westlake, TX 76272



Kane Lamont Relo / 19752
3218 Highland Road
Kane
Elk County, Pennsylvania 16735
EBI Project No. 61145635

July 2014



6876 Susquehanna Trail South
York, PA 17403
Tel: (717) 428-0401
Fax: (717) 428-0403

Management Summary

PROJECT TITLE: Phase I Cultural Resource Reconnaissance Survey of Proposed Cell Tower at Kane Lamont Relo / 19752, Highland Road, Kane, Elk County, Pennsylvania 16735

PROJECT DESCRIPTION: An cultural resource reconnaissance survey of a proposed self-support tower, associated equipment, and utility lines. The Area of Potential Effect-Direct Effects (APE-DE) consists of the lease area, utility and access easements.

AGENCY: Federal Communications Commission (FCC)

EBI PROJECT NO.: 61145635

LAND STATUS: Private

LOCATION: James City, PA 7.5" USGS Topographic Map

PERMIT NUMBERS: NA

TRANSECT INTERVAL: NA

AREA
SURVEYED: 0.44 acres

DATE(S) OF FIELD SURVEY: June 30, 2014

TOTAL NUMBER OF SITES
IDENTIFIED BY CLASS I
SURVEY: 1

SITES RECOMMENDED
TO BE NRHP ELIGIBLE/LISTED
ON NRHP
WITHIN THE APE FOR
DIRECT EFFECTS: 0

SITES RECOMMENDED
TO BE NRHP ELIGIBLE/LISTED
ON NRHP
WITHIN THE APE FOR
VISUAL EFFECTS: 0

REPORT AUTHOR(S): James Dietterich

REPORT DATE: July 2, 2014

Abstract

Cellco Partnership and its controlled affiliates doing business as Verizon Wireless (Verizon Wireless) propose to construct a new telecommunications facility at 3218 Highland Road, Kane, Elk County, Pennsylvania. The proposed facility will consist of a 309' (94.2m) self-supporting tower with lightning rod and associated equipment within a 100' (30.5m) by 100' (30.5m) lease area. An existing gravel access road runs northwest for approximately 300' (91.4m) from 3218 Highland Road to the Lease Area. An overhead utility wire is proposed to run for approximately 400' (121.9m) from an existing pole across Highland Road to the Lease Area.

For the purpose of this report, the Area of Potential Effects-Direct Effects (APE-DE) consists of the lease area and the proposed access easement. The total acreage of the APE-DE is approximately 0.44 acres (0.18 ha).

The archaeological potential of the APE-DE for historic archaeological resources is low. The Subject Property and Project Area remain undeveloped through to the present time. The probability that the proposed project will impact intact, subsurface historic archaeological resources is low.

The archaeological potential of the APE-DE for prehistoric archaeological resources is moderate. The Project Area is located in a favorable environmental location near the summit of a gentle rise approximately 700' (213.4m) from Ellithorpe Run, a creek draining from a pond near the Project Area. There is no evidence of historic development beyond cultivation to heavily disturb or destroy prehistoric archaeological materials. Therefore, the probability that the proposed project will impact intact, subsurface prehistoric archaeological resources is moderate.

In light of available information, it is my professional opinion that the APE-DE for the present project is not sensitive for the presence of archaeological resources. No cultural materials were recovered during pedestrian survey and shovel testing. No Historic Properties were identified by this archaeological survey within the APE-DE. EBI Consulting recommends no further archaeological investigation for this location.

Introduction

The Federal Communications Commission (FCC) requires licensees and their representatives to consider the effects of their actions on historic properties, in accordance with Section 106 of the National Historic Preservation Act of 1966, as amended, and the National Environmental Policy Act of 1969 (NEPA) (Federal Communications Commission 1996). Historic properties include Native American or European-American archaeological sites, architectural resources (historic districts and standing structures), objects, and traditional cultural properties. Applicants are required to assess and report all potential environmental effects as part of the Section 106 process, prior to construction.

This Phase I survey and literature assessment was completed by James Dietterich, MA, Project Archaeologist with EBI Consulting, on June 27, 2014, in accordance with state guidelines (Pennsylvania Historical and Museum Commission). It is intended to provide information that will enable the Office of the State Archaeologist and the Pennsylvania Historical and Museum Commission (PHMC) to review the subject project. Background research was conducted online via the Cultural Resources Geographic Information System (CRGIS), and other cited resources. On July 1, 2014 a subsurface investigation consisting of shovel test pits was conducted within the Lease Area. Prior disturbance and ground conditions prohibited subsurface testing along the access easement.

The Project and Project Area

Verizon Wireless proposes to construct a new telecommunications facility at 3218 Highland Road, Kane, Elk County, Pennsylvania. The proposed facility will consist of a 309' (94.2m) self-supporting tower with lightning rod and associated equipment within a 100' (30.5m) by 100' (30.5m) lease area. An existing gravel access road runs northwest for approximately 300' (91.4m) from 3218 Highland Road to the Lease Area. An overhead utility wire is proposed to run for approximately 400' (121.9m) from an existing pole across Highland Road to the Lease Area (Figure 2).

The Subject Property is an agricultural property located near a pond and a drainage stream called Ellithorpe Run. The lease area is approximately 300' from Highland Road and the access/utility easement runs directly from Highland Road to the lease area (see Photos).

For the purpose of this report, the Area of Potential Effects-Direct Effects (APE-DE) consists of the lease area and the proposed access and utility easements. The total acreage of the APE-DE is approximately 0.44 acres (0.18 ha) (see Figure 2).

Environmental Setting

The Project Area is located on rolling agricultural land adjacent to the Allegheny National Forest. According to CRGIS, the Project Area is located in the High Plateau Physiographic Zone

and within the Central Allegheny River Watershed A. The Project Area is located at an elevation of approximately 1784' (543.8m) above mean sea level. The closest water source is an unnamed pond and its drainage, a stream called Ellithorpe Run approximately 700' (213.4m) southeast of the Project Area.

According to the Natural Resources Conservation Service (NRCS) Web Soil Survey (WSS 2014), the primary soil type in the vicinity of the proposed lease area is classified as Cavode silt loams (CaB), 3 to 8% slopes and (CaC), 8-15% slopes. Cavode silt loam forms on hills on a parent material of acid clayey residuum weathered from clayey shale. Cavode silt loam has a typical profile of 0 to 10" (25.4cm) Ap, moderately acid, silt loam; underlain by 10" to 47" (119.4cm) Btg, very strongly acid silty clay loam; underlain by 47" to 57" (144.8cm) BCg, very strongly acid, channery silt loam; underlain by 57" to 61" (154.9cm) C, bedrock.

Prehistoric and Historic Overview

Pennsylvania is bordered by the Canadian and New England boreal forest to the north, coastal environments to the east, and fertile valleys of the Piedmont zone to the south. The state is situated at the crossroads of the cultures that occupied these zones prior to European contact and expansion (PHMC 2013).

The Paleoindian Period (16000-10000 BP)

The earliest site identified in Pennsylvania is the Meadowcroft Rock Shelter in Washington County, which has been dated, controversially, to 16250 BP. During the pre-Clovis period, northern Pennsylvania was covered by glaciers, while southern Pennsylvania was characterized by a patchwork of forest and open grassy environments. Available foods included: megafauna, such as mammoth, mastodon, musk-ox, horse, camel, moose, caribou, elk; small mammals; and seeds, nuts, and berries. The only site identified in Pennsylvania from this period is the Meadowcroft Rock Shelter, which indicates that human population density was very low (PHMC 2013).

The development of Clovis technology, named for the distinctive fluted projectile point, occurred in 11500 BP. Clovis points in Pennsylvania date to 11000 BP. The diet of Paleoindians in the west is better documented than that of Paleoindians in the east; however, Pennsylvania has a deeply buried site with evidence for Paleoindian occupation: the Shawnee-Minisink Site along the Delaware River in Monroe County. This site contains fluted points, tools, and a hearth containing a variety of seeds, hawthorn plums, blackberries, and fish remains and, in all likelihood, is representative of the general diet of Paleoindians. In Pennsylvania, Clovis people moved their camps in a seasonal pattern to the locations of predictable food resources, such as along the migration routes of caribou, water fowl, or anadromous (spawning) fish (PHMC 2013).

The Archaic Period (10000-4000 BP)

During this period major climatic changes were occurring, as a warming trend led to changes in vegetation and the open woodland of the Ice Age was replaced by a denser spruce-pine forest. Archaic people continued to hunt, fish, and gather wild plant foods. The Archaic Period is subdivided into three groups: Early, Middle, and Late Archaic (PHMC 2013).

During the Early Archaic, populations were similar to Paleoindian groups: small bands of related individuals moved camps frequently to be close to seasonal resources. Bedrock and cobble sources were the preferred location for lithic procurement (PHMC 2013).

By the beginning of the Middle Archaic, in 9000 BP, the climate had warmed to the extent that the spruce-pine forest was replaced by deciduous trees, such as oak, chestnut, and maple. As a result, forests were richer in food resources for both man and other animals. The birds and small mammals that fed on these new food sources became important food resource for Middle Archaic populations and lithic technology changed to allow for hunting smaller, lighter mammals. Although, changes in spearpoint from fluted to bifurcate bases may also indicate a migration of people from the south into the Mid Atlantic and northeast (PHMC 2013).

By the beginning of the Late Archaic, in 5000 BP, population density was much higher. There is an increase in the number of archaeological sites and many of these are very large, suggesting that groups expanded to include families related by blood or marriage. It is hypothesized that large groups gathered together in winter, then broke into smaller groups to exploit seasonally available resources. Lithic production began to favor locally available resources. The Late Archaic toolkit expanded to include tools for grinding seeds and nuts. Fishing with nets also occurred (PHMC 2013).

Transitional Period (4000-3000 BP)

During the Transitional Period, there was a change to a warm, dry climate. This may have affected hunter-gatherer strategies, as Transitional Period sites are more frequently located close to water. In the Susquehanna Valley and Delaware Valley, this change from the Archaic to the Transitional Period is dramatic. Stone for lithic production was transported over hundreds of miles, indicating the importance of trade networks. A new spear point, the broadspear, is developed. It functioned as a cutting, scraping, and drilling tool. The size of hearths during this period, as indicated by charcoal and fire-cracked rock, indicates that cooking for large groups was occurring at many sites. Often associated with these hearths are bowls carved from steatite or soapstone (PHMC 2013).

In western Pennsylvania, evidence for the Transitional Period is less dramatic. Fire cracked rock features are found, but broadspears and steatite bowls are less common. Steatite quarried in Lancaster County has been identified at a site west of Pittsburgh (PHMC 2011).

The Woodland Period (3000 BP to AD 1600)

The Woodland Period is subdivided into three periods: Early Woodland, Middle Woodland, and Late Woodland. The climate during the Woodland was similar to today's climate. Hunting

and gathering continued during the Early and Middle Woodland. During this period, steatite bowls were replaced by pottery. Early pottery was hand molded and may have represented a change to more sedentary way of life, as the pottery would have been more difficult to transport. In favorable areas, base camps may have been occupied for longer periods of the year (PHMC 2013).

During this period, the Ohio Valley of Western Pennsylvania was influenced by the Adena culture, and groups used burial mounds and conducted elaborate burial ceremonies. Adena people lived in round houses clustered in small hamlets. In addition to hunting and fishing, they intensified their use of wild plant foods. Sunflower seeds and chenopodium were ground into flour (PHMC 2013).

By the beginning of the Middle Woodland (2400 BP) there appears to have been a significant drop in population in Pennsylvania and the Mid Atlantic, although this could be due to difficulty in distinguishing between artifacts of the Middle Woodland and the Early and Late Woodland periods. The few excavated sites are small and fire cracked rock features are no longer common. Trash pits are also rare. The fired clay pottery is generally undecorated and covered with net impressions or cord marking. Seed planting may have started during this period. Sections of Pennsylvania were Hopewell and integrated into the Hopewell Interaction Sphere, which extended from the Gulf of Mexico to Yellowstone National Park to the Delaware Bay. Trade items included marine shells, ocean turtle shells, shark and alligator teeth from the Atlantic and Florida coasts; copper and silver from the Great Lakes region; and obsidian, and volcanic glass from the western United States. Ceremonial artifacts were placed in the graves of high ranking individuals. Hopewell in western Pennsylvania ended in approximately AD 400 (PHMC 2013).

In western Pennsylvania, the late Prehistoric is influenced by the Monongahela Culture, identified as early A.D. 1000. Initially, Monongahela sites were located on flood plains. But by A.D. 1250, they had moved most of their settlements to upland saddles between hills. The settlements and villages consisted of small houses (suggesting nuclear family dwellings) situated in semi circles surrounding a central plaza. By A.D. 1450, these villages had grown larger and more complex. Concentric circles of houses surrounded a larger central building. The Monongahela people grew corn, beans, and squash as well as hunting wild game and gathering wild plants. The bow and arrow had replaced the spear as the preferred hunting tools. Archaeological excavations have recovered stone tools, pottery, ornamental objects, and trade goods (PHMC 2013).

Historic Period

By the beginning of the 17th century, three distinct groups of Native Americans were established in what would become Pennsylvania: along the Delaware River Valley—the Delaware or Lenape peoples, along the Susquehanna River Valley—the Susquehannocks, and along the Upper Ohio River Valley—the Monogahela peoples (Wallace 2007: 9).

By the time European explorers and settlers reached the Ohio River Valley in the early 17th century, the Monongahela peoples had been dispersed and left the area. While the exact cause of their apparent demise is unknown, European diseases—which preceded them in the region—likely contributed their disappearance. There are no recorded encounters between European explorers and the Monongahela people. The region was mostly unoccupied by the time of their arrival (PHMC 2013).

The lands of the Allegheny and Ohio River valleys were rich hunting grounds. In the 17th century, Native American groups, spurred in part by the increasing demand for furs made by European settlers, were eager to expand their hunting grounds. The Five Nations of the Iroquois Confederacy—the Mohawk, Oneida, Onondaga, Cayuga, and Seneca—from upstate New York sought to expand their economic fortunes into central and western Pennsylvania. This led to the “Beaver Wars” of the middle of the 17th century, in which the Iroquois fought against the alliance of the Susquehannock and Huron (Wyandot) people for these rich hunting territories (Wallace 2007: 100-103). The sustained Beaver Wars in the mid-17th century, combined with disease, decimated the Susquehannock peoples of the Lower Susquehanna River Valley; and by 1679, the Susquehannocks were considered “destroyed” by their Iroquois enemies and had been mostly killed off or pushed south into Maryland (Wallace 2007: 100-104).

At a similar time that the members of the Five Nations were expanding into the Susquehanna Valley, they were also moving southwest along the Allegheny River Valley and the Lake Erie Basin. The northwest portion of Pennsylvania and southwestern New York and northwestern Ohio, along Lake Erie had been inhabited by several Iroquoian-speaking groups including the Erie peoples. It is believed that “intertribal wars” or Beaver Wars—conflicts over territories and hunting grounds—between different Iroquoian speakers, along with European diseases, caused the defeat and eventual displacement of several of these groups including the Erie, who had inhabited the Lake Erie Basin and Allegheny Plateau. The Erie were defeated and displaced from the region between 1654 and 1656 as the Seneca of the Five Nations moved in to control the region. These conflicts occurred before European arrival; there are only second hand accounts of what transpired (Engelbrecht and Sullivan 1996: 25).

The Five Nations of the Iroquois spent the next 100 years trying to fill the power vacuum left by the decimation of the Susquehannocks and others. They did this by encouraging and facilitating the settlement of the Susquehanna River Valley and portions of Western Pennsylvania with “displaced persons” or Native Americans whose communities and settlements had been reduced by the war and disease that came with European settlement (Wallace 2007: 108-109). Some of the Native American groups and nations that moved into the Susquehanna River Valley were the Conoy, Nantioke, Tuscaroras (who would join with the Five Nations to become the Six Nations), the Tutelos, and the Shawnees. The Shawnees would have the most significant impact on the history of Pennsylvania. By the time they entered the Susquehanna River Valley in 1697, the Shawnee had migrated throughout the East. The

Shawnee's first recorded home place is thought to be in Western Kentucky, but as Algonkian speakers they had ties all throughout the East (Wallace 2007: 118-126).

During the 18th century, colonial conflicts grew as the English and French struggled for domination on the American continent. The effects of colonization—disease, war, political struggles—caused the realignment of political spheres within the native population. Much of the French and Indian War was fought in the Ohio Valley with significant battles and forts in Western Pennsylvania and along Lake Erie. After the end of the war, for the most part, the much of the Native American population was forced to move west of the Ohio River (PHMC 2013).

Known Archaeological Sites

According to a record search conducted online via the PHMC CRGIS, there is one documented archaeological site identified within a 1 mile (1.6km) radius of the APE-DE. A brief description of the site is in the table below:

Site Number / Name	Temporal Description	Artifacts Documented	NR Eligibility	Distance to Project Area
36EL0280 / Lamont Chemical Plant and Scatter	Historic Industrial Site	Brick, Glass, Ceramic	Insufficient Information	.74mi (1.2km)

National/State Register Files

According to the site files held online at CRGIS, the Project Area is not located adjacent to or within properties on or eligible for nomination to the National Register of Historic Places.

Historic Map and Aerial Photograph Review

A review of the available historic highway maps (PENDOT) and aerial photographs (PA Geological Survey) indicate that the parcel containing the Project Area has been agricultural land or remained undeveloped (Figures 3-11). No structures appear to have been present in the APE-DE in either the highway maps or aerial photos.

Archaeological Potential of the APE-DE

The archaeological potential of the APE-DE for historic archaeological resources is low. The Subject Property and Project Area remain undeveloped through to the present time. The probability that the proposed project will impact intact, subsurface historic archaeological resources is low.

The archaeological potential of the APE-DE for prehistoric archaeological resources is moderate. The Project Area is located in a favorable environmental location near the summit of a gentle rise approximately 700' (213.4m) from Ellithorpe Run, a creek draining from a pond near the Project Area. There is no evidence of historic development beyond cultivation to heavily disturb or destroy prehistoric archaeological materials. Therefore, the probability that the proposed project will impact intact, subsurface prehistoric archaeological resources is moderate.

Determination of Effects on Archaeological Historic Properties

Per the guidelines of Verizon Wireless and the FCC the visual effect of the proposed tower on National Register listed or eligible archaeological sites within the APE-VE must be assessed in addition to any direct effects that may result from the proposed undertaking. This assessment was undertaken by James Dietterich. Location information was kept confidential as per state and federal guidelines. According to the archaeological site file search and field survey, the aforementioned Lamont Chemical Plant and Scatter (36EL0280) archaeological site was the only site within a 1 mile radius of the APE-DE. The site has been classified as not having sufficient information for eligibility for listing on the NRHP. Consequently, a determination of "No Historic Properties" within the APE-VE, with regard to archaeological resources, is recommended.

Field Methods and Results of Archaeological Field Investigations

Per Section VI.D.2 of the Federal Communications Commission's (FCC) 2004 Nationwide Programmatic Agreement, EBI Consulting conducted field survey to identify archaeological Historic Properties that lie within the APE for direct effects (APE-DE). The FCC has defined the APE-DE as "the area of potential ground disturbance and any property, or any portion thereof that will be physically altered or destroyed by the Undertaking."

On July 1, 2014 a pedestrian survey of the entire lease area, access and utility routes with close-interval (<5m) transects was conducted. The pedestrian survey of the APE-DE took 1 hour. Areas outside of the lease area, access and utility easements as shown on the project plans (buffer zones) were not surveyed because these areas are not part of the APE-DE and the applicant has no permission, legal or financial arrangement with the property owner to use or modify those areas. The pedestrian survey, along with notes on the project plans, indicated that the access easement did not require shovel testing for this endeavor. The surface conditions showed an eroded ground surface with a drainage cut on the southern side. The project plans also indicated that there is a buried natural gas line next to the access.

On July 1, 2014 subsurface testing of the 100' (30.5m) by 100' (30.5m) lease area consisting of 50cm (19.7") by 50cm (19.7") shovel test pits was conducted. All soil was screened through 1/4" (0.64cm) mesh. All STPs were excavated 10 cm (3.9") into sterile subsoil, B horizon soils. No

historic or prehistoric artifacts were recovered during the survey. Shovel testing took 4 hours. Areas outside of the lease area, access and utility easements as shown on the project plans (buffer zones) were not surveyed because these areas are not part of the APE-DE and the applicant has no permission, legal or financial arrangement with the property owner to use or modify those areas. See STP log for complete excavation results.

Conclusion and Recommendations

In light of available information, it is my professional opinion that the APE-DE for the present project is not sensitive for the presence of prehistoric or historic resources. No cultural materials were recovered during the pedestrian survey and shovel testing. No Historic Properties with identified within the APE-DE during the archaeological sensitivity assessment. EBI Consulting recommends no further archaeological investigation for this location.

A determination of "No Historic Properties" within the APE-DE and APE-VE, with regard to archaeological resources, is recommended. We request your concurrence.

Sincerely,



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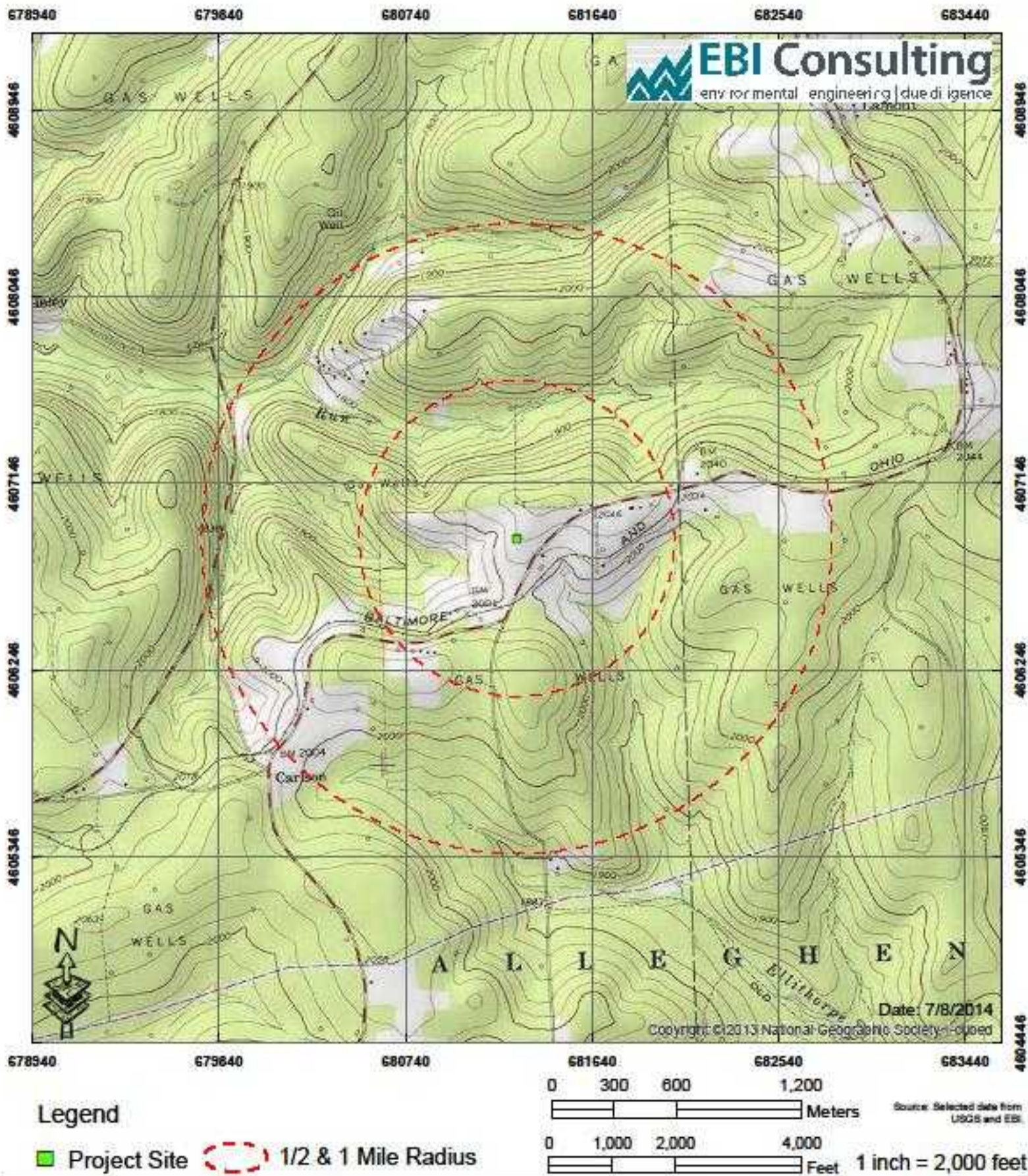
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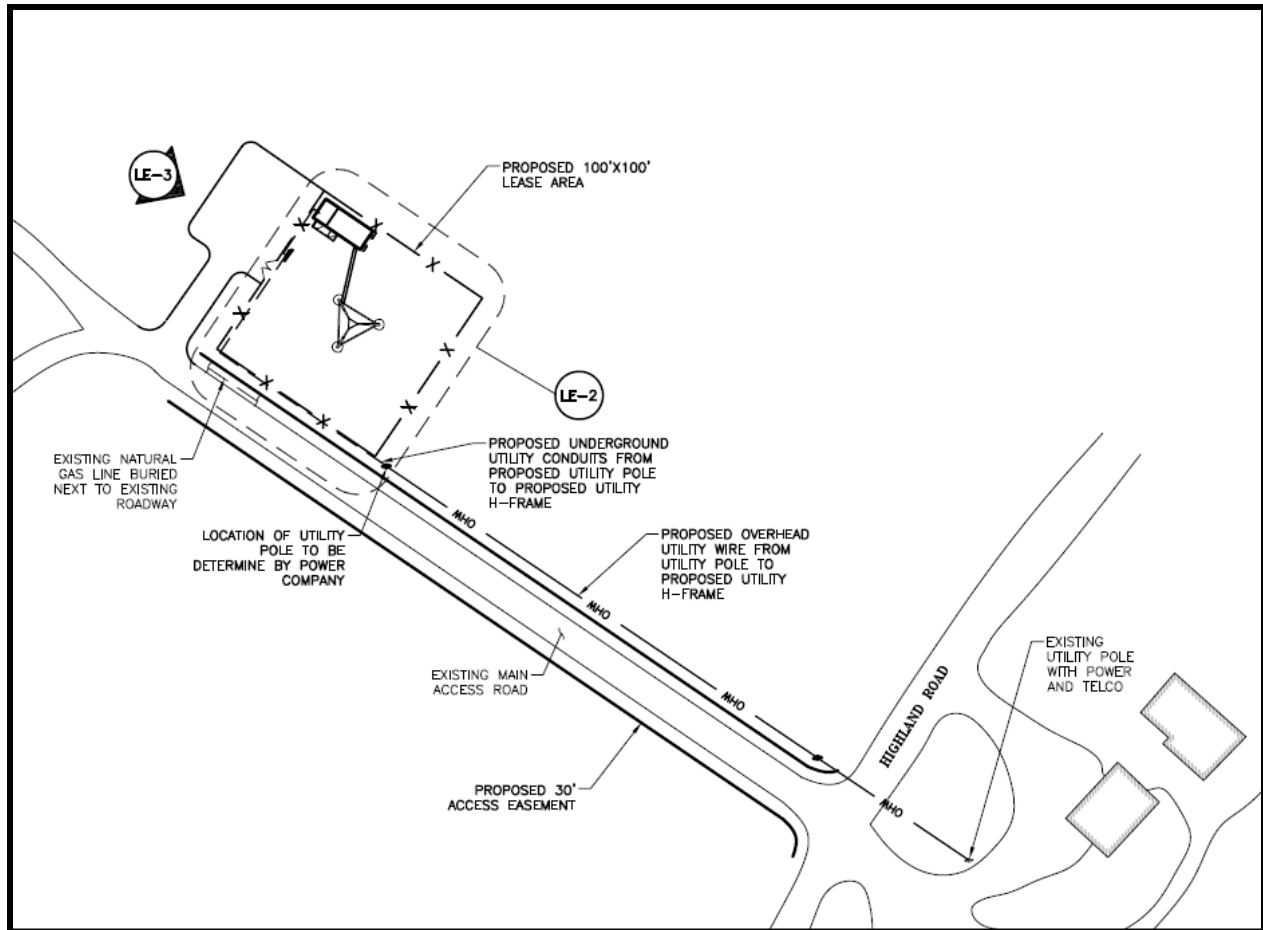


Figure 2: Project Palns modified by EBI to show detail



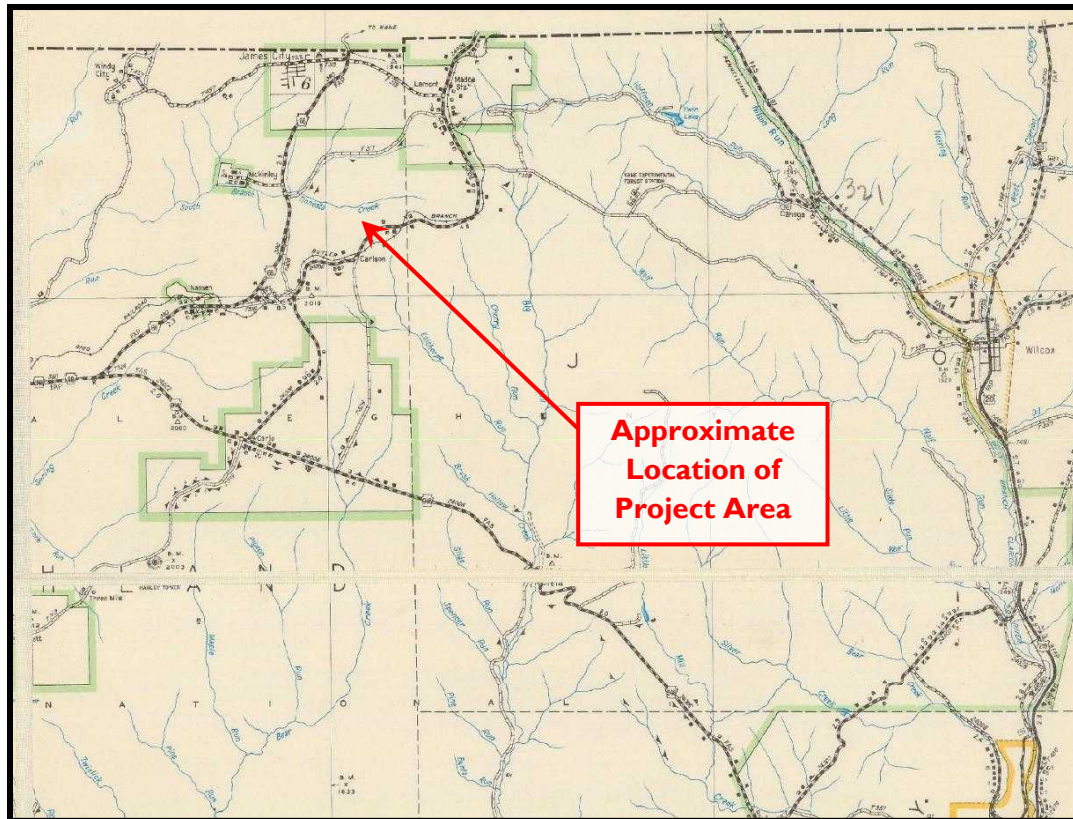


Figure 5: 1954 General Highway Map of Elk County (PENDOT 1954)

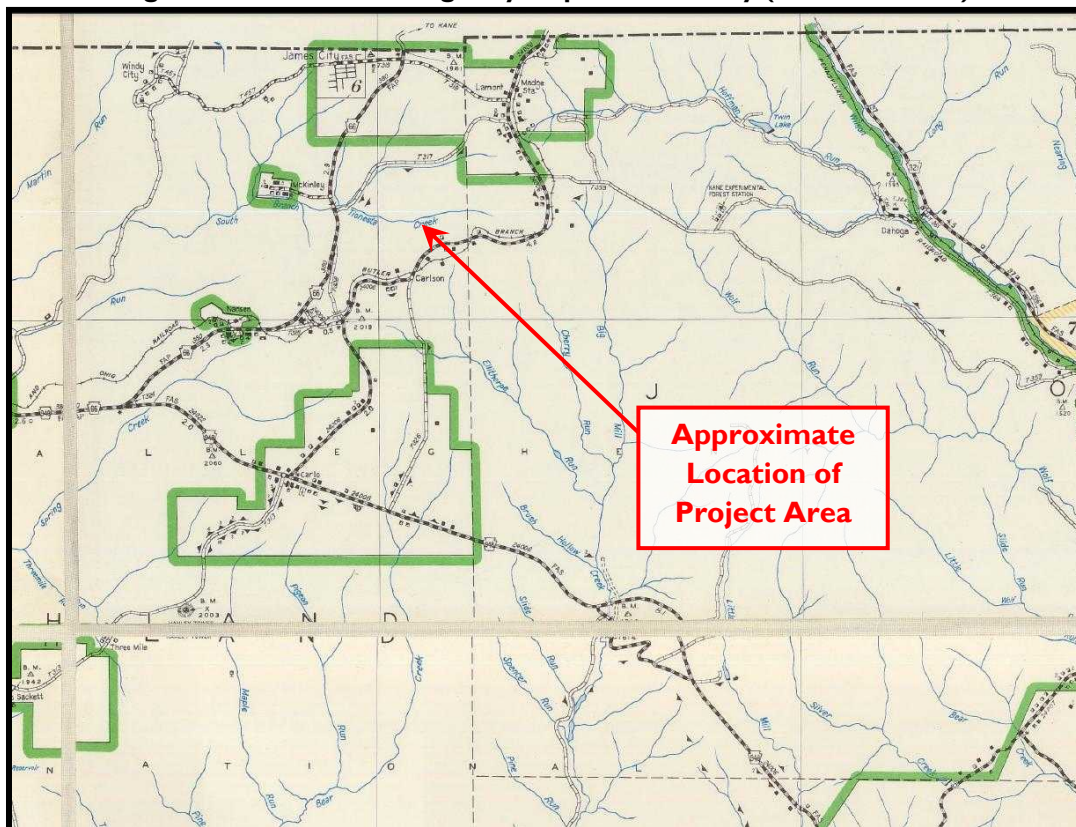


Figure 6: 1967 General Highway Map of Elk County (PENDOT 1967)